us-10-721-553-2.rai

191 6.9 598 189 6.8 764 186 6.8 764	186 6.7 3135 3 185.5 6.7 1162 2 185.5 6.7 1162 3 185.5 6.7 1162 4	36 185.5 6.7 1162 4 US-09-894-773-2 37 185 6.7 402 408-09-248-796A-18910 39 183 6.6 486 4 US-09-710-279-78	180 6.5 487 4 180 6.5 487 4 178.5 6.5 40 4	178.5 6.5 1269 4 178.5 6.5 1269 4 178 6.4 1444 4		ALIGNMENTS	RESULT 1 US-08-933-750C-9	Sequence 9, Application US/08933750C; Patent No. 5932442; GENERAL INFORMATION:	APPLICANT: Hillman, Jennifer L. APPLICANT: Bandman, Olga APPLICANT: Shah, Purvi	; APPLICANT: Au-Young, Janice ; APPLICANT: Yue, Henry ; APPLICANT: Guegler, Karl J. : APPLICANT: Corley, Neil C.	REGULATORY	, ADDRESSEE: Incyte Pharmaceuticals, Inc. ; STREBT: 3174 Porter Drive	CITY: PALO ALCO ; STATE: CONTRY: USA	; ZIP: 94304 ; COMPUTER READABLE FORM:	, MEDIUM TYPE: Diskette , COMPUTER: IBM Compatible	; OPERATING SECTEM: DOS ; SOFTWARE: FRatESOF for Windows Version 2.0	APPLICATION NUMBER: US/08/933,750C	; FILING DATE: September 23, 1997; CLASSIFICATION: 536	; PRIOR APPLICATION DATA: ; APPLICATION NUMBER:	; FILING DATE: ; ATTORNEY/AGENT INFORMATION:	, NAME: Billings, Lucy J. , REGISTRATION NUMBER: 36,749	; REFERENCE/DOCKET NUMBER: PF-0356 US ; TELECOMMUNICATION INFORMATION:	; TELEPHONE: 415-855-0555 ; TELEFAX: 415-845-4166	INPORMATION FOR SEQ ID NO: 9:	E CHARA H: 531	급엽	22	; LIBRARY: FITUNOROL
GenCore version 5.1.6 c) 1993 - 2005 Compugen Ltd.	using sw model 2005, 13:45:55 ; Search time 44 Seconds		EDGHRPNSHQEDGSEAAASDSSEADSDSD 531	Gapext 0.5	74649064 residues	ng chosen parameters: 513545	0000	h O% h 100% t 45 summaries	s AA:* odata/1 odata/1	<pre>btodata/1/iaa/6A_COMB.pep:* btodata/1/iaa/6B_COMB.pep:* ptodata/1/iaa/COMB.pep:* htodata/1/iaa/harkfilea!nen:*</pre>	of resu ual to	E the total score di	SUMMARIES	Description	US-08-933-750C-9 US-09-234-613-9	US-09-647-143-2 Sequence US-09-513-999C-7407 Sequence	US-09-248-796A-18683 Sequence US-09-386-962C-4 Sequence	US-09-386-959-4 Sequence US-09-200-650E-3 Sequence	US-09-200-650E-1 US-08-293-728-2	US-09-421-868-2 Sequence US-08-956-171E-5249 Sequence	US-08-781-986A-5249 US-09-200-650E-5	US-09-949-016-10366 Sequence US-09-200-650E-7 Sequence	710-279-468 Sequence 147-405B-15 Sequence	US-U9-Z48-/96A-19046 Sequence US-09-461-697-188 Sequence	US-09-461-697-186 Sequence US-09-538-092-864 Sequence	US-09-461-697-190 Sequence 1 US-09-949-016-9773 Sequence 9	US-09-461-697-194 Sequence US-09-461-697-192 Sequence	US-09-538-092-944 Sequence 944,
Copyright (	OM protein - protein search, Run on: September 26	US-10-721-	764 Maptiqtqa	Scoring table: BLOSUM62 Gapop 10.0,	Searched: 513545 segs,	Total number of hits satisfy	Minimum DB seq length: 0 Maximum DB seq length: 200000	Post-processing: Minimum Matc Maximum Matc Listing firs	Issued_Pate: 	3: /cgn2_6/pt 4: /cgn2_6/pt 5: /cgn2_6/pt 6: /cgn2_6/pt	s the number	derived l		No. Score Match Length	2764 100.0 2764 100.0	2764 100.0 595 21.5	266 9.6 234.5 8.5	234.5 8.5 233.5 8.4	9 226 8.2 0 225.5 8.2	1 225.5 8.2 2 225.5 8.2	3 225.5 8.2 4 223.5 8.1	5 220.5 8.0 6 218 7.9	17 212.5 7.7 287 18 212.5 7.7 1092	9 203.5 7.4 0 203 7.3	1 203 7.3 2 199.5 7.2	3 198.5 7.2 4 196 7.1	5 195 7.1 6 195 7.1	7 195 7.1

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Best Local Similarity 100.0%; Pred. No. 4.2e-227;
Matches 531; Conservative 0; Mismatches 0; Indels
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; Sequence 2, Application US/09647143
; Patent No. 6680196
; GENERAL INFORMATION:
; APPLICANT: Batra, Surinder K.
; APPLICANT: Hollingsworth, Michael A.
APPLICANT: University of Nebraska Board of Regents
                           PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/933,750
FILING DATE: September 23, 1997
ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
REPERENCE/DOCKET NUMBER: PF-0356 US
TELECOMMUNICATION INFORMATION:
TELECHONE: 415-855-0555
                                                                                                                                                                                                                  INFORMATION FOR SEQ ID NO: 9
SEQUENCE CHARACTERISTICS:
ILBNGTH: 531 amino acids
TYPE: amino acid
STRANDEDNESS: single
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CLONE: 98974
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IMMEDIATE SOURCE:
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                                                                              0; Indels
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APPLICANT: Hillman, Jennifer L.
APPLICANT: Bandman, Olga
APPLICANT: Shah, Purv,
APPLICANT: Shah, Purv,
APPLICANT: Yue, Henry
APPLICANT: Yue, Henry
APPLICANT: Guegler, Karl J.
APPLICANT: Guegler, Karl J.
APPLICANT: Guegler, Weil C.
TITLE OF INVENTION: Helphan REGULATORY MOLECULES
NUMBER OF SEQUENCES: 98
CORRESPONDENCE ADDRESS
STRPE
                                           ; Score 2764; DB 2;
; Pred. No. 4.2e-227;
0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DØS
SOFTWARE: F851SEQ før Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: | US/09/234,613
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STREET: 3174 Porter Drive CITY: Palo Alto
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US-09-234-613-9
; Sequence 9, Application U$/
; Patent No. 6132973
; GENERAL INFORMATION:
                                          Query Match
Best Local Similarity 16
Matches 531; Conservati
                                                                                                                                                                                                                                                              SOOHAKVVPWMRKT
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COMPUTER READABLE FORM
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; CLONE: 98974
US-08-933-750C-9
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APPLICANT: Keith Weinstock et al
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
TITLE OF INVENTION: POR DIAGNOSTICS AND THERAPEUTICS
FILE REPERRICE: 107196.132
CURRENT APPLICATION NUMBER: US/09/248,796A
CURRENT FILING DATE: 1999-02-12
PRIOR APPLICATION NUMBER: US 60/074,725
PRIOR APPLICATION NUMBER: US 60/096,409
PRIOR FILING DATE: 1998-08-13
NUMBER OF SEQ ID NOS: 28208
SEQ ID NO 18683 72 HDLLTEPD--LGVTIDLINPDTY------RIDPN---VLLDPADEXLLEE 110 1 MAPTIQTQAQREDGHRPNSHRTLPERSGVVCRVKYCNSLPDIPFDPKFITYRFDQNRFVQ 60 1 MAPTIQTQAQREDGHRPNSHRTLPXXSGVVCRVKYCNSLPDIPFDPKFITYPFDQNRFVQ 60 18 NSHRTL-PERSGVVCRVKYCNSLPDIPPDPKFITY----PPDQNRFVQYKA†SL-EKQHK 71 16 SSNXSLKPIRQDYIAKVRYTNNLPPPPLNPKFIEYNTTDPISTQQEGEYLI\$SLFRKENF 75 Query Match
9.6%; Score 266; DB 4; Length 481;
Best Local Similarity 22.0%; Pred. No. 2.8e-14;
Matches 110; Conservative 91; Mismatches 156; Indels 144; Gaps Gaps 111 EIQAPTSSKRSQQHAKVVPWMRKTEYISTEFNRYGISNEKPEVKIG----Query Match 21.5%; Score 595; DB 4; Length 115; Best Local Similarity 96.5%; Pred. No. 3.2e-43; Matches 111; Conservative 0; Mismatches 4; Indels ; Sequence 18683, Application US/09248796A; Patent No. 6747137 ; GENERAL INFORMATION: G FEATURE:
NAME/KEY: UNSURE
LOCATION: 110
OTHER INFORMATION: Xaa=Glu or Gly ; LOCATION: 114 ; OTHER INFORMATION: Xaa=Ala or Gly US-09-513-999C-7407 ŏ or FEATURE: NAME/KEY: UNSURE LOCATION: 26 OTHER INFORMATION: Xaa=Arg LOCATION: 25 OTHER INFORMATION: Xaa=Glu NUMBER OF SEQ ID NOS: 36681 SOFTWARE: Patent.pm SCO ID NO 7407 LENGTH: 115 Candida albicans TYPE: PRT ORGANISM: Homo sapiens FEATURE: NAME/KEY: UNSURE NAME/KEY: UNSURE US-09-248-796A-18683 US-09-248-796A-18683 TYPE: PRT ORGANISM: 셤 ઠે 셤 ઠે 8 셤 ò EPDLGVTIDLINPDTYRIDPNVLLDPADEKLLEERIQAPTSSKR 120 61 YKATSLEKQHKHDIAJFEPDLGVTIDLINPDTYRIDPNVLLDPADEKLLEEEIQAPTSSKR 120 ISTEFNRYGISNEKPEVKIGVSVKQQFTEEEIYKDRDSQITAIE 180 181 KTFEDAQKSISQHYSKPRVTPVEVMPVPPDFKMMINPCAQVIFDSDPAPKDTSGAAALEM 240 241 MSQAMIRGMMDEEGNQFVAYFLPVEETLKKRKRDQEEEMDYAPDDVYDYKIAREYNMVVK 300 161 LEAQEARKAQLENHEPPEEEEEEEMETEEKEAGGSDEEQEKGSSSEKEGSEDEHSGSESER 420 EEGDRDEASDKSGSGEDESSEDEARAARDKEEIFGSDADSEDDADSDDEDRGQAQGGSDN 480 121 SQQHAKVVPWMRKTEVISTEFNRYGISNEKPEVKIGVSVKQQFTEEEIYKDRDSQITAIE 180 CPRVTPVEVMPVFPDFKMWINPCAQVIFDSDPAPKDTSGAAALEM 240 FVAYFLPVEETLKKRKRDQEEEMDYAPDDVYDYKIAREYNWNVK 300 NKASKGYBENYFFIFREGDGVYYNELETRVRLSKRRAKAGVQSGTNALLVVKHRDMNEKB 360 LEAGEARKAQLENHEPEEEEEEEMETEEKEAGGSDEEQEKGSSSEKEGSEDEHSGSESER 420 EEGDRDEASDKSGSGEDESSEDEARAARDKEEIFGSDADSEDDADSDDEDRGQAQGGSDN 480 9 1 MAPTIQTQAQREDGHRPNSHRTLPERSGVVCRVKYCNSLPDIPFDPKFITYPFDQNRFVQ 60 TITLE OF INVENTION: No. 6680196el Gene That is Amplified and
TITLE OF INVENTION: Overexpressed in Cancer and Methods of Use Thereof
FILE REPERENCE: UNMCG121
CURRENT APPLICATION NUMBER: US/09/647,143
CURRENT FILING DATE: 2000-09-27
PRIOR PELING DATE: 1999-03-26
PRIOR FILING DATE: 1999-03-27
PRIOR FILING DATE: 1998-03-27
NUMBER OF SEQ ID NOS: 22
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 2
LENGTH: 531 PNSHRTLPERSGVVCRVKYCNSLPDIPFDPKFITYPFDQNRFVQ Sequence 7407, Application US/09513999C

Batent No. 6783961

GENERAL INFORMATION:
APPLICANT: Dumas Milne Edwards, J.B.
APPLICANT: Dumas Milne Edwards, J.B.
APPLICANT: Dumas Milne Edwards, J.B.
APPLICANT: Giordano, J.Y.
TILLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
PALEAR APPLICATION WINBER: US/09/513,999C
CURRENT APPLICATION WINBER: 2000-02-24
CURRENT FILING DATE: 2000-02-24
FRIOR FILING DATE: 1999-02-26
FRIOR FILING DATE: 1999-02-26 Gaps DSDSGSNGGGQRSRBHSRSASPPPSGSEHSAQEDGSEAAASDSSEADSDSD 531 DSDSGSNGGGQRSRBHSRSASPPPSGSEHSAQEDGSEAAASDSSEADSDSD 531 ö Length 531; Indels 0%; Score 2764; DB 4; 0%; Pred. No. 4.2e-227; 0; Mismatches 0; Ouery Match
Best Local Similarity 100.
Matches 531; Conservative YKATSLEKOHKHDLL MSQAMIRGMMDEEGN 1 MAPTIQTOAOREDGE ; ORGANISM: Homo sapiens US-09-647-143-2 US-09-513-999C-7407 301 301 241 361 61 421 181 TYPE: PRT 121 181 421 181 ద 원 ઠે ઢ ઠે 셤 셤 δ a 8 셤 ઠે 셤 ઠે 셤 ò 8

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Page 4

004 GITTTGIINGADNLTIDSGFYKIPKYSVGDYWEDTNKGGGDDNEKGISGWKYTLKDEK 1063   1004 GITTTGIINGADNLTIDSGFYKIPKYSVGDYWEDTNKGGGDDNEKGISGWKYTLKDEK 1063   308EENYFFIFREGD-GVYYNELETRVRLSKRRAKAGVGSGTNALLVVKHRDMN 357   1064 GNIISTTTDENGKYQFDNLDSGNYIIHFEKPEGMTQTTANSGNDD 1109   110 EKCLEAQEARKA	RESULT 7 US-09-386-959-4 ; Sequence 4, Application US/09386959 ; Ratent No. 6703025 ; Ratent No. 6703025 ; Ratent No. 6703025 ; APPLICANT: PATTI, Joseph M. ; APPLICANT: PATTI, Joseph M. ; APPLICANT: HOOK, Magnus ; TILE OF INVENTION: MULTICOMPONENT VACCINES ; TILE REFERENCE: P06333US1/BAS ; CURRENT APPLICATION NUMBER: 00/093439 ; CURRENT FILING DATE: 1999-08-31 ; EARLIER APPLICATION NUMBER: 60/098,439 ; CURRENT FILING DATE: 1999-08-31 ; RALLIER RILNG DATE: 1999-08-31 ; NUMBER OF SEQ ID NOS: 65 ; SOFTWARE: PREFERENCE:	Similarity 21.0%; 7; Conservative 86 ETTYPEDQURFYOYKATSLE EVILKDSNNRELQRVTTDQS ADEKLLEEEIQAPTSSKRSG               CSTATCHYVVAKGTINNY VSV
Db   136 EPE	RESULT 6  RESULT 6  G.09-386-962C-4  Sequence 4, Application US/09386962C  Patent No. 6635473  GENERAL INFORMATION: PAPLICANT: POSTER: 1996-101  FILE REFERENCE: P06335US2/BAS  CURRENT FILING DATE: 1999-08-31  PRIOR APPLICATION NUMBER: 60/098,443  PRIOR APPLICATION NUMBER: 60/117,119	Query Match         8   54; Score 234.5; DB 4; Length 1742;           Best Local Similarity         21   04; Pred. No. 8.5e-11;           Matches 127; Conservative 88; Mismatches 240; Indels 149; Gaps 24;           Cy         18   FITYPFDQNRFVQFKATSLEKQHKHDLLTEPDLGVTIDLINPDTYRIDPNVLLDP 102           Db         716 YVTLKDSNNRELGRYTTDQSGHYQFDNLGNGTYTVEFALPBNYTPSFANNSTNDAIDS 773           Cy         103 ADEKLLEEEIQAPTSSKRSQOHAKVVPWARKTEYISTERNRYGISNEKPEVKG 156           Db         774 DGERDGTRKVVVAKGTINNADNMTVDTGFYLTPKYNVGDYVWEDTHKDGIQDDNEKG1SG 833           Cy         157 VSV

Page 5	TLDSGFYKT 605  FIREGDGV 321 FREDNLDSG 665  EN-HEPEEE 379	Staphylococcus aureus	TFVFTDYVNNKE 322 -EIQAPTSSKRS 121
-553-2.rai	00   00   00   00   00   00   00   0	RESULT 9  US-09-200-650E-1  Sequence 1, Application US/09200650E  Sequence 1, Application US/09200650E  Sequence 1, Application US/09200650E  Sequence 1, Application  Patent No. 6660195  APPLICANT: Patti, Joseph M.  APPLICANT: Eidhinn, Deirdre Ni  PELOR PROMERT PILING DATE: 1906-10-125  PRIOR PILING DATE: 1907-11-25  PRIOR PILING DATE: 1998-08-31  NUMBER OF REQ (0/098,427)  PRIOR PILING DATE: 1998-08-31  SOFTWARE: Patentin Ver. 2.0  SEQ ID NO: 23  SEQ ID NO: 23  CREANISM: Staphylococcus aureus  US-09-200-650E-1  Guery Match  Best Local Similarity 22.6%; Pred, No. 1.8e-10;  Matches 125; Conservative 75; Mismatches 208; Indels 14  OV  33 VKCKNSLPDIPF-PEKFITYPPDQNRFVQYKATSLEKQHGHDLITEDDLGY  OV  33 VKCKNSLPDIPF-PEKFITYPPDQNRFVQYKATSLEKQHGHDLITEDDLGY  OV  33 VKCKNSLPDIPF-PEKFITYPPDQNRFVQYKATSLEKQHGHDLITEDDLGY  OV  33 VKCKNSLPDIPF-PEKFITYPPDQNRFVQYKATSLEKQHGHDLITEDDLGY  OV  1	Db 276 VDYSNSNNTWPIADIKSTNGDVAKAITYDILIKTYTFVFTDYVNNKE  Qy 89
Tue Sep 27 06:55:04 2005	0004 GITTTGIINGADNI   DSGPYKTPRKYSVGDYVWEDTNKDGIQDDNEKGISGVKVTLKDEK 1063     308EENYFFIFREGD-GVYYNELETRVRLSKRRAKAGVOSGTNALLVVKHRDMN 357     1064 GNIISTTTTDENGKYQFDNLDSGNYIIHFEKPEGWTQTTANSGNDD 1109     358 EKELEAQEARKA	Sequence 3, Application US/09200650E  Sequence 3, Application US/09200650E  Sequence 3, Application US/09200650E  GENERAL INFORMATION: APPLICANT: Foster, Timochy J. APPLICANT: Britis, Doseph M. APPLICANT: Britis, Doseph M. APPLICANT: Britis, Doseph M. APPLICANT: Britis, Doseph M. APPLICANT: Britis Characteristics Samuel L. TITIE OF INVENTION: Extracellular Matrix-Binding Proteins from Staphylococcus aureus CURRENT APPLICATION NUMBER: US/09/200,650E CURRENT APPLICATION NUMBER: 60/066,815 PRIOR FILING DATE: 1998-11-25 PRIOR PRIOR PLING DATE: 1998-11-25 PRIOR PLING DATE: 1998-08-11-25 PRIOR FILING DATE: 1998-08-131  NUMBER OF SEQ ID NOS: 23 SOFTWARE: PatentIN Ver. 2.0  SEQ ID NO 3 LENGTH: 930 TYPE: PRT  OMEANISM: Staphylococcus aureus US-09-200-650E-3  Query Match  Best Local Similarity 20-54; Pred. No. 4.2e-11; Matches 130; Gaps 25; Matches 130; Conservative 77; Mismatches 211; Indels 215; Gaps 25;  APPLICANT: Hill Hill Hill Hill Hill Hill Hill Hil	QY         113 QAPTSSKRSQQHAKVVPWRKTEYISTE

Cy	RESULT 11 US-09-421-868-2 ; Sequence 2, Application US/09421868 ; Patent No. 6177084 ; GENERAL INFORMATION: ; APPLICANT: FOSTET, Damien L. ; TITLE OF INVENTION: The S. aureus Fibrinogen Binding Protein FILE REFERENCE: 05344.105011 ; CURRENT APPLICATION NUMBER: US/09/421,868 ; CURRENT PELING DATE: 1999-10-19 ; PRIOR PELING DATE: 1999-10-19 ; PRIOR PELING DATE: 1999-10-19 ; RIOR APPLICATION NUMBER: 08/293,728 ; NUMBER OF SEQ ID NOS: 20 ; SOFTWARE: PatentIn Ver. 2.0 ; SEQ ID NO 2 LENGTH: 933 ; TYPE: PRT ; ORGANISM: Staphylococcus aureus	Ouery Match  Query Match  Best Local Similarity 21.4%; Pred. No. 2e-10;  Bact Local Similarity 21.4%; Pred. No. 2e-10;  Matches 103; Conservative 76; Mismatches 187; Indels 115; Gaps 18;  Qy 83 TIDLINPDTYRIDENVLLDPADEKLLEEEIQAPTSSKRSOCHAKVVPWMRKTEYISTE 140  Db 383 TIDQIDKTNNTYRQTIYAVPSGDNVIAPVLT	QY 196 KPRVTPVEVMPVFPDFRAMINPCAQVIFDSDPAPKDTSGAALEMMSQAMIRGM- 249  468 NPNQYKVEFNTPDDQITTPYIVVVNGHIDPNSKGDLALRSTLYGYNSNIIMRSMS 522  QY 250 MDEEGNOFVAYFLPVEETLKKRKDQEEEMDYAPDDVYDYKIAREYNWNVKNKA 303  523 WDNEVAFNNGSGSGDGIDKPVVPEQPDEPGEIEPIPEDSDS 563  QY 304 SKGYEENYFIFREGDGVYYNELETRVRLSKRAAGVQSGTNALLSDS 563  DD 564 DPGSDSG	413 662 472 721 531 780 SULT 12
Db 486ITKTYVVLVEGHYDNTGKNLKTQVIQENVDPVTNRDYSIF 525  Qy 296 NWNVKNKASKGYEENYFPIFREGDGVYYNELETRVRLSKRRAKAGVQSGTNALLVVKHRD 355  Db 526 GWNNEN	Oy 401 GSSEKEGSEDEHBGSESERE-EGDRDEASDK-SGSGEDESSEDEARAARDKEEIFGSDA 458	### AFPLICANI: MCDEVILCY ### TITLE OF INVENTION: The part of aureus Fibrinogen Binding Protein Gene ### FILE REFERENCE: 05344.106011 ### CURRENT APPLICATION NUMBER: US/08/293,728D ### CURRENT FILING DATE: 1994 -08-22 ### CURRENT FILING DATE: 1994 -08-22 ### CURRENT FILING DATE: 1994 -08-22 ### CURRENT FILING BATE: 1994 -08-22 ### CURRENT FILING BATE: 1994 -08-23 ### CURRENT FILING BATE: 1994 -08-29 ### CURRENT FILI	Query Match   B.2%; Score 225.5; DB 3; Length 933;	0

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83 TIDLINP--DIYRIDPNVLLDPADEKLLEEEIQAPISSKRSQQHAKVVPWMRKTEYISTE 140
                                                                                    413 HSGSESERE-EGDRDEASDKSGSGEDESSEDEARAARDKEEIFGSDADSED$ADSDEDR 471
                                                                                                                                                                                                                                                                                                      472 GQAQGGSDNDSDSGSNGGGQRSRSHSRSASPFPSGSEHSAQEDGSEAAASD$-SEADSDS 530
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequences
                                                                                                                                                                                                                            Sequence 5349, Application US/08781986A
Patent No. 6737248
GENERAL INFORMATION:
APPLICANT: Charles Kunsch
TITLE OF INVENTION: Staphylococcus aureus Polynucleotides and
NUMBER OF SEQUENCES: 5255
                         353 HRDMNEKELEAQEARKAQLENHEPEEEEEEEEMETEEKEAGGSDEEQEKGSS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8.2%; Score 225.5; DB 4; Length 936
21.4%; Pred. No. 2e-10;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COMPUTE: TOOSON:

MEDIUM TYPE: Diskette, 3.50 inch, 1.4Mb storage COMPUTER: He Vectre 486/33

OPERATING SYSTEM: MSDOS version 6.2

SOFTWARE: ASCII Text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/781,986A
FILING DATE:
FLING DATE:
APPLICATION: 435
PRIOR APPLICATION NUMBER:
FILING DATE:
APPLICATION NUMBER:
FILING DATE:
APPLICATION NUMBER:
FILING DATE:
ATMORWATION:
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8.2%; Score 225.5; DB 4;
Best Local Similarity 21.4%; Pred. No. 2e-10;
Matches 103; Conservative 76; Mismatches 187;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NUMBER OF SEQUENCES: 5255
CORRESPONDENCE ADDRESS:
ADDRESSEE: Human Genome Sciences, Inc.
STREET: 9410 Key West Avenue
CITY: Rockville
STATE: Maryland
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ATTORNEY/AGENT 10.

NAME: Benson, Bob
REGISTRATION NUMBER: 98248PP
RELEPHONE: (301) 309-8504
TELEPHONE: (301) 309-8512
INFORMATION FOR SEQ ID NO: 5249:
SEQUENCE CHARACTERISTICS:
TRANSTH: 936 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-781-986A-5249
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                  Sequence 5249, Application US/08956171E
Patent No. 6593114
GENERAL INFORMATION:
Charles Kunsch
Gil H. Choi
Patrick S. Dillon
Craig A. Barash
Michael R. Fannon
TITLE OF INVENTION: Staphylococcus aureus Polynucleotides and Sequences NUMBER OF SEQUENCES: 5256
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         93 TIDLINP--DTYRIDPNVLLDPADEKLLEEEIQAPTSSKRSQQHAKVVPWMRKTEYISTE 140
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ---SDSNSDSGSDSGSDSTSDSGSDSASDSDSAS 610
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   532 WDNE----VAFNNGSGSGDGIDKPVVPEQPDEPGEIEPIPED------SDS 572
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match

Best Local Similarity 21.4%; Pred. No. 2e-10;
Matches 103; Conservative 76; Mismatches 187; Indels 115
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER READABLE FORM:

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 3.50 inch, 1.4Mb storage
COMPUTER: H Vectra 486/33

OPERATING SYSTEM: MSDOS version 6.2

SOFTWARE: ASCIL Text
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/956,171E

FILING DATE: 20-Oct-1997

CLASSIFICATION: <Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | : ::|: : : | : : | CTIYVNPSGDNVI----APVLT---
                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADDRESSEE: Human Genome Sciences, Inc
STREET: 9410 Key West Avenue
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/009,861
FILING DATE: Jahuary 5, 1996
APPLICATION NUMBER: 08/781,986
FILING DATE: Jahuary 3, 1997
ATTORNEY/AGENT INFORMATION:
NAME: MARK J. HYMAN
REFERENCE/DOCKET NUMBER: 46,789
TELECOMMUNICATION TOPPORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 5249:
US-08-956-171E-5249
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MAUNICATION INFORMATION:
ELEPHONE: (240) 314-1224
ELEFAX: (301) 309-8439
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   INFORMATION FOR SEQ ID NG: 5249:
SEQUENCE CHARACTERISTICS:
LENGTH: 936 antho acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         392 TIDQIDKTNNTYR--
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CITY: Rockvill
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STATE: Marylan
COUNTRY: USA
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US-08-956-171E-5249
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Db 935 DENDKVLKTVTTDENGKYQPTDLNNGTYKVBFETPSGYTPT	RESULT 15  US-09-949-16-10366  i Gequence 10336, Application US/09949016  j Patent No. 6812339  j GENERAL INFORMATION:     APPLICANT: VENTER, J.     TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF     TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF     TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF     TILL REPERENCE: CLO01307,     CURRENT PILING DATE: 2000-04-14     PRIOR PILING DATE: 2000-10-20     PRIOR PILING DATE: 2000-10-03     PRIOR PILING DATE: 2000-09-08     PRIOR APPLICATION NUMBER: 60/237,768     PRIOR PILING DATE: 2000-09-08     PRIOR PILING DATE: 2000-09-08     PRIOR FILING DATE: 2000-09-08     NUMBER OF SEQ ID NOS: 207012     SOFTWARE: PASSES for Windows Version 4.0     SEQ ID NO 10366     LENGTH: 1259     TYPE: PRI     ORGANISM: Human     US-09-949-016-10366	Query Match         8.0%; Score 220.5; DB 4; Length 1259;           Best Local Similarity         23.1%; Pred. No. 8.3e-10;           Matches         93; Conservative         57; Mismatches 160; Indels         93; Gaps 16;           QY         171 DRDSQITAIEKTFEDAQKSISQHYSKPRVTPVEVMPVFPDFKAMINPCAQVIFDSDPAPK 230
0	SULT 14 -09-200-650E-5 Sequence 5, Ap Patent No. 66 APPLICANT: P APPLI	; TYPE: PRT; CORGANISM: Staphylococcus aureus US-09-200-650E-5  Query Match  Query Match  B.1%; Score 223.5; DB 4; Length 1315;  Best Local Similarity 21.7%; Pred. No. 4.9e-10;  Matches 121; Conservative 85; Mismatches 225; Indels 127; Gaps 23;  Qy 27 SGVCRVKYCNSLPDIPPDPKPTTYPPDQNRFVQXKATSLEKQHKHDLLTEPDLGVTIDL 86

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GenCore version 5.1.6 (c) 1993 - 2005 Compugen Ltd.	using sw model	2005, 13:48:56 ; Search time 174 Seconds (without alignments) 1242.129 Million cell updates/sec	-2 EDGHRPNSHQEDGSEAAASDSSEADSDSD 531	Gapext 0.5	407025358 residues	hits satisfying chosen parameters: 1826554	000	100% 1100% 45 summaries	lications AA:* odata/2/mibmas/IISO7 DITECOMR nen.*	/ cgn2 = 6/ptcodata/2/pubpaa/PCT NBW FUB.pep:* / cgn2 = 6/ptcodata/2/pubpaa/VBS0 = NBW FUB.pep:* / cgn2 = 6/ptcodata/2/pubpaa/VBS0 = NBW FUB.pep:* / cgn2 = 6/ptcodata/2/pubpaa/VBS0 = PUBCOMB.pep:*	odata/2/pubpaa/USO7_NEW_PUB.pep:* odata/2/pubpa/PCTUS_PUBCOMB.pep:* odata/2/pubpa/USO8_NEW_PUB.nep:*		gg .		rtodata/2/pubpa/USIOC_FOBCOMB.pep:*  rtodata/2/pubpa/USIOC_FOBCOMB.pep:*		.todata/2/pubpaa/US11_NEW_PUB.pep:* .todata/2/pubpaa/US60_NEW_PUB.pep:* .todata/2/pubpaa/US60_PUBCOMB.pep:*	of results predicted by chance to have a ; ; and to the score of the result being printed, ; ; of the total grown distribution .	SUMMARIES	DB ID Description	US-09-840-787-9 Sequence US-09-840-721-553-2 Sequence	18 US-10-4504-763-50041 Sequence 50041, A. 10 US-09-986-480-410 Sequence 410, App ; 17 US-10-863-332-410 Sequence 410, App ; 17 US-10-450-753-50040 Sequence 50040, A ; 18 US-09-980-990-990-990-990-990-990-990-990-	US-10-424-599-223174 Sequence US-10-424-599-213359 Sequence	US-10-450-763-49771 Sequence US-10-450-763-49771 Sequence US-10-425-115-202470 Sequence
Copyright	OM protein - protein search,	Run on: September 26,	Title: US-10-721-553-2 Perfect score: 2764 Sequence: 1 MAPTIQTQAQREDGHRPNSH	Scoring table: BLOSUM62 Gapop 10.0 ,	Searched: 1826554 segs,	umber of	Minimum DB seq length: 0 Maximum DB seq length: 2000000000	Post-processing: Minimum March Maximum March Listing first	Database : Published Apr	1: / cgn2_6/pt 2: / cgn2_6/pt 3: / cgn2_6/pt 4: / cgn2_6/pt	5: /cgn2_6/pt 6: /cgn2_6/pt 7: /cgn2_6/pt	8: /cgn2_6/pt 9: /cgn2_6/pt	10: /cgn2_g/l 11: /cgn2_g/l 12: /cgn2_g/l	13: /cgn2 e/n	15: /cgnz = 4/4	1/: /cgnz_q/i 18: /cgnz_d/i 19: /cgnz_d/i	20: /cgn2_6/1 21: /cgn2_6/1 22: /cgn2_6/1	Pred. No. is the number of a score greater than or equal		Result Query No. Score Match Length	2764 100.0 2764 100.0	3 2658.5 96.2 553 4 2464 89.1 473 5 2464 89.1 473 6 629 25 132	452 16.4 375.5 13.6	237.5 12.2 283 10.2 238.5 8.6

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61 YKATSLEKQHKHDLLTEPDLGVTIDLINPDTYRIDPNVLLDPADEKLLEEHIQAPTSSKR 120
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TITLE OF INVERTION: NOVEL NUCLEIC ACIDS AND POLFILE OF INVERTION: NOVEL NUCLEIC ACIDS AND POLFILE OF INVERTION: NUMBER: US/10/450,763
CURRENT APPLICATION NUMBER: US/10/450,763
CURRENT FILING DATE: 2003-06-10
PRIOR PELING DATE: 2000-03-30
PRIOR APPLICATION NUMBER: 09/540,217
PRIOR PILING DATE: 2000-03-31
PRIOR FILING DATE: 2000-08-23
NUMBER OF SEQ ID NOS: 60736
CURRENT FILING DATE: 2003-11-25
PRIOR APPLICATION NUMBER: US/09/647,143
PRIOR PILING DATE: 2000-09-27
PRIOR PELING DATE: 1999-03-26
PRIOR PELING DATE: 1999-03-26
PRIOR PELING DATE: 1998-03-27
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                                                                                                                                                                                                TYPE: PRT
ORGANISM: Homo sapiens
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US-10-450-763-50041
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LENGTH: 531
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; Publication No. US20050032D79A1
; GENERAL INPORMATION:
; APPLICANT: Batra, Suringer K.
; APPLICANT: University of Nebraska Board of Regents
; TITLE OF INVENTION: Novel Gene That is Amplified and
; TITLE OF INVENTION: Overexpressed in Cancer and Methods of Use Thereof
; FILE REPERENCE: UNMC63121
; CURRENT APPLICATION NUMBER: US/10/721,553
                                                                                                                                                                                                                                                                                                                                                                                                                                   HRPNSHRTLPERSGVVCRVKYCNSLPDIPFDPKFITYPFDQNRFVQ
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100.0%; Pred. No. 9.8e-167;
tipe 0; Mismatches 0;
 ATTORNEY/AGENT INFÓRMATION:
NAME: B111/1109/ J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-0356 US
                                                                                                                                                                                                                                                                                                      SEQUENCE DESCRIPTION: SEQ ID NO: 9
                                                                     TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-855-0555
TELEFAX: 415-845-4166
                                                                                                                                                       SEQUENCE CHARACTERIBILCS:
LENGTH: 531 appino acids
                                                                                                                         TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 9:
                                                                                                                                                                                                                                                  IMMEDIATE SOURCE: | LIBRARY: PITUNDR01
                                                                                                                                                                                                TYPE: amino acid
STRANDEDNESS: sin
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Best Local Similarity 1
Matches 531; Conservati
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Page 3	1amino acids 1amino acids 1amino acids 1. Gaps 0; 1. Gaps 0; 1. Gaps 120
-553-2.rapb	PRIOR PELICATION NUMBER; US 60/134,066  WENDER COPE SO IN NOS: 456  SECTION 10 041  SECTION 10
5:04 2005 signal and 10-721-	TOTALE: CALLED  NOTIVE 53  THE STATES  THE
Tue Sep 27 06:55	SEQ ID NO 50041   LENGTH: 533   TYPE: PRT   CORGANISM: Homo sapiens   PEATURE:   NAWE/KEY: DOWAIN   LOCATION: (377). (428)   COTHER INFORMATION: accession number BLOG   PEATURE:   NAWE/KEY: micc feature   NO. 100ACTION:   NAME   NO. 100ACTION:   NO. 10ACTION:   NO. 10ACTION:   NO. 10ACTION:   NO. 10ACTION:   NO. 10A

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•	DD 1 KUGEEMUIAFDDVIDIKLAREINMAVANAAGIT	ore 2464; DB 17; Length 473; ed. No. 8.3e-148; Mismatches 1; Indels 0; Gaps 0;	TLPERSGVVCRVKXCNSLPDIPFDPKFITYPFDQNRFVQ 60	120 RESU 120 120 180 180 180 180 240 240 300 360 360 360 380	SEKEGSEDEHSGSESER 420 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5			763 US 11	18; Length 133; ; ERQ ID NO 213359 ; LENGTH: 571 2; ; TyBE: PR: 70. Cana 1. ORGENISM. Glorine ms
	the naturally oc	DB 17; Length 473 e-148; 1; Indels	Qy 1 MAPTIQTQAQREDGHRPNSHRTLPERSGVVCRVKYCNSLPDIPFDPKFITY	YKATSLEKQHKHDLLTEPDLGVTIDLINPDTYRIDPNVLLDPADEKLLEEEIQAPTSSKR	361 LEAQEARKAQLENHEREREREREREFERKEAGGSDEGGRKGSS 361 LEAQEARKAQLENHEPEREREREREFERKEAGGSDERGKGSS 361 LEAQEARKAQLENHEPEREREREREFKEAGGSDERGEKGSS	Qy 421 EEGDRDEASDKSGSGEDESSEDEARAARDKEEIFGSDADSEDDADSDDEDR 	86,000	FILE REFERENCE: 790CIP3/US	Query Match 22.5%; Score 622; DB 18; Length 133 Best Local Similarity 64.4%; Pred. No. 7e-32; Matches 130; Conservative 0; Mismatches 2; Indels

Associated With Associated With Gaps 0; RSQQHA 125 |||||| RSQQHA 60 ----- 35
||||||
|EEKEAG 392
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|EEKEAG 50
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|ARDKEE 452
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Page 5	LAYLTYAQTIESTPPUQPPWA 347	
553-2.rapb	Qy         101	RESULT 10 US-10-450-763-49771 Sequence 49771, Application US/10450763 ; Publication No. US20050196754A1 ; GENERAL INFORMATION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES ; TITLE OF INVENTION: NOVER: US/10/450,763 ; TITLE OF INVENTION NUMBER: US/10/450,763 ; CURRENT APPLICATION NUMBER: US/10/450,763 ; CURRENT PILING DATE: 2003-06-11 ; PRIOR APPLICATION NUMBER: 09/540,217 ; PRIOR FILING DATE: 2000-03-30 ; PRIOR PILING DATE: 2000-03-31 ; PRIOR FILING DATE: 2000-03-31 ; PRIOR FILING DATE: 2000-03-31 ; PRIOR FILING DATE: 2000-08-23 ; NUMBER OF SEQ ID NOS: 60736 ; SOFTWARE: Custom ; SEQ ID NO 49771 ; LENGTH: 475 ; TYPE: PRT ; ORGANISM: Homo sapiens ; FEATURE: ; NAMEKEY: DOMAIN ; LOCATION: (391)(429)
Tue Sep 27 06:55:04 2005	Ouery Match  Duery Match  Best Local Similarity 27,24; Pred. No. 1.6e-15;  Matches 128; Conservative 71; Mismatches 170; Indels 101; Gaps 19;  Matches 128; Conservative 71; Mismatches 170; Indels 101; Gaps 19;  14 GHRPNSHRTLPERSGVVCRVKYCNSLPDIPPDEMETTYPEDQNRFVCY 61	Qy 330 VRLSKRRAKAGYQSGTNALLVVKGRDMNEKELEAQBARKAQLENHEPEEEEEEBETEEK 389

ORGANISM: Homo sapiens FEATURE:	NAME/KEY: DOMAIN LOCATION: (391)(429)	OTHER INFORMATION: ELEMENT TRANSPOSABLE INSERTION PROTEIN TRANSPOSITION DNA	OTHER INFORMATION: TOTAL TOTAL BY STATE OF 15.65 OTHER INFORMATION: 1.450e-25, raw score of 25.65	FEATURE: NAME/KEY: DOMAIN	LOCATION: (68) (113)	OTHER INFORMATION: Immunogiobulin domain identified by Fram, accession hame 19, OTHER INFORMATION: E-value=0.099, PFam score of 10.6	ÜS-10-450-763-49771	Onery Match 10.2%; Score 283; DB 18; Length 475;	Best Local Similarity 87.7%; Pred. No. 9.2e-10;		328 TRVRLSKRRAKAGVQSGTNALLAVVKHRDMNEKELEAQEARKAQLENHEPEEEEEEEEETE 38/ :	3 SRVRLSKRRAKAGVQSGTNALLVVKHRDMNEKELEAQEARKAQLENHEPEEEEEERRQP 62	יסנ שעמאט ססר
TAPPLICANT: Daileache, Bade ; TAPPLICANT: Li, Ping Muleic Acid Molecules and Other Molecules Associated With ;	; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement ; FILE PERFENCE: 38-21(5434)18	; CURRENT APPLICATION NUMBHR: US/10/437,963	; CURRENT FILING DATE: 2003-05-14 ; NUMBER OF SEQ ID NOS: 204966 ;	; SEQ ID NO 116147	TYPE: PRI	; ORGANISM: Oryza sativa	ORMATION: Clond ID: PAT_MRT4530_19676C.1.pep	US-10-437-963-116147	5; Length 644;	Best Local Similarity 24.3%; Fred. No. 4.7e-13; Matches 109; Conservative 82; Mismatches 156; Indels 93; Gaps 17;	Qy		Db 228 PNAERFENRLKKFTTFLCKHKFRNELPDPSSQLKWLPLNKDKDRYTKYRITSLEKNYIPK 287

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1101 EKDADGEDVR-VTITDHDDFSIDNGYFDDDSDSDSDADSDSDSDSDSDSDADSDSDADSDSDSDADSNSD 1159
  ----NDD 1100
   995 GITTTGIINGADNLTIDSGFYKTPKYSVGDYVWEDTNKDGIQDDNEKGISGVKVTLKDEK 1054
  ------BENYFFIFREGD-GVYYNELETRVRLSKRRAKAGVQSGTNALL
  --- KDRDSO 175
   825 VKVTLKNKNGDTIGTTTTDSNGKYEFTGLENGDYTIEFETPEGYTPTKQNSGSDEGKDSN 884
   176 ITAIEKTFEDA-OKSISOHYSKPRVTPVEVMPVFPDFKMWINPCAQVIFD$DP---- 227
   228 -APKDISGAA----ALEMMSQAMIRGWMDEEGNQFVAYFLPVEETLKKRKKHDQEEEMDY- 281
  EKELEAQBARKAQLENH--------BPEEEEEEEEEREMET|BEKEAGGSD
   396 BEQEKGSSSEKEGSEDEHSGSESERE-EGDRDEASDK-SGSGEDESSEDEARARDKEEI
INVENTION: Identification of Essential Genes in Microorganisms
  8.6%; Score 237.5; DB 15; Length 1633;
ilarity 21.2%; Pred. No. 3e-06;
Conservative 85; Mismatches 238; Indels 165; Gaps
  PALM.
                                      FILE REFERENCE: ELITRA, 034A.

CURRENT APPLICATION NUMBER: 05/191,078

PRIOR PELICATION NUMBER: 60/191,078

PRIOR PELICATION NUMBER: 60/191,078

PRIOR PELICATION NUMBER: 60/206,848

PRIOR PELICATION NUMBER: 60/207,727

PRIOR PELING DATE: 2000-05-25

PRIOR PELING DATE: 2000-05-26

PRIOR PELING DATE: 2000-05-66

PRIOR PELING DATE: 2000-09-66

PRIOR PELING DATE: 2000-09-66

PRIOR PELICATION NUMBER: 60/230,347

PRIOR PELING DATE: 2000-10-23

PRIOR PELING DATE: 2000-10-23

PRIOR PELING DATE: 2000-11-27

PRIOR PELING DATE: 2000-11-27

PRIOR PELING DATE: 2000-11-27

PRIOR PELICATION NUMBER: 60/257,931

PRIOR PELING DATE: 2000-11-27

PRIOR PELING DATE: 2000-10-29

PRIOR PELING DATE: 2000-10-29

PRIOR PELING DATE: 2000-10-29

PRIOR PELING DATE: 2000-10-29

PRIOR PELING DATE: 2000-10-20

PRIOR PELING DATE: 2000-10-20

PRIOR PELING DATE: 2001-02-09

PRIOR PELING DATE
   48 FITYPFDONRFVQYKATSLEKOHKHDLLTEPDLGVTIDLINPDTYRIDP--
  103 ADEKLLEEEIQAPTSSKRSQQHAKV-----VPWMRKTEYISTEFNRYGI-
  282 ------APDDVYD---YKIAR----EYNWNVKNK-----ASKGY-
  -----QPTEEEIY-----
   GNIISTITIDENGKY@FDNLDSGNYIIHFEKPEGMIQTIANSG-----
   ORGANISM: Staphylococcus epidermidis
   IGVSVKQ-----
   Local Similarity
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  US-10-282-122A-7043
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  Sequence 202470, Application US/10425115
Publication No. US20040214272A1
GENERAL INFORMATION:
APPLICANT: La Rosal. Thomas J.
APPLICANT: Zhou, Yihua APPLICANT: Cao, Yongweil
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With TITLE OF INVENTION: Plants
FILE REPERENCE: 38-21(5322)8
CURRENT APPLICATION NUMBER: US/10/425,115
CURRENT PILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 369326
SEQ ID NO 202470
  90 DTYRIDPNVL-LDPADEKLL-EEEIQAPTS----SKRSQQHAKVVPWMRKTEYISTEFNR 143
  EDEELLRDDEVLTPVKPEGIRKKERPTDKGMSWLVKTQYISP---- 138
   144 YGISNEKPEVKIGVSVKOOFTEE-----EIYKDRDSOITAIEKTFEDAOKSISOHYS 195
   196 KPRVTPVEVMPVFPDFKMVINPCAQVIFDSDPAPKDTSGAAALEMM-----SQA---- 244
   23 LCKHKFRNELPDPSAQLKWLPLNKDKDRYTKYRISSLEKNYLPKMIVPEDLGIPLDLLDM 82
   ?DPKFITYPFDQNRFVQYKATSLEKQHKHDLLTEPDLGVTIDLINP 89
  Gaps
  33;
  Length 286;
   ; Score 238.5; DB 16; Length
; Pred. No. 3.3e-07;
49; Mismatches 113; Indels
   ID: MRT4577_116243C.1.pep
  LOCATION: (1)..(286)
OTHER INFORMATION: unsure at all Xaa locations
   245 MIRGMMDEEGNOFWAYFLPVEETLKKRKRDQ 275
   255 XVSGSDPAKKREILAYMKSSPHELVKDLDDE 285
   Sequence 70437, Application US/10282122A Publication No. US20040029129A1 GENERAL INFORMATION:
  APPLICANT: Wang, Liangsu
APPLICANT: Zamudio, Carlbs
APPLICANT: Malone, Cheryl
APPLICANT: Haselbeck, Robert
APPLICANT: Ohlsen, Kari
APPLICANT: Zyskind, Judith
APPLICANT: Wall, Daniel
  ; OTHER INFORMATION: Clone
US-10-425-115-202470
   Query Match
Best Local Similarity 28
Matches 76; Conservativ
  83 TVYNPPAAQLPLAP
   30 VCRVKYCNSLPDIF
   Wall, Daniel
Trawick, John
  Yamamoto, Ro
Forsyth, R.
   Carr, Grant
  |: |
63 RKKLG 67
  ORGANISM: Zea mays
  FEATURE:
NAME/KEY: unsure
  RESULT 12
US-10-282-122A-70437
   APPLICANT:
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Page 7	ASDS-SEAD 527
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469 EDRGOAQGGSDNDSDSGSNGGGQRSRSHSRASPPPSGSEHSAQEDGSEAAASDS-SEAD 1230 DSDSDSDSDSDSDSDSDSDSDSDSDADSDSDADSDSDSDS	Search completed: September 26, 2005, 13:59:26 Job time : 176 secs				
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EDRGOAGGSDNIISDSGSNGGGQRSRSHSRSASPFPSGSEHSAQEDGSEAAASDS-SEAD 527  1	1066 348A1 3PTII 17BA2 11 (BA2 11 (BA2 11 (BA2 10 (BA2) 10 (BA2) 11 (BA2 11 (BA2) 11 (BA2) 11 (BA2) 11 (BA2) 12 (BA2) 13 (BA2) 14 (BA2) 16 (BA2) 17 (BA2) 18	Similarity 21.0%; Pred. No. 5.1e-06; '; Conservative 88; Mismatches 240; Indels 149; Gaps 24;  PITYPPDQNRFVQYKATSLEKQHKHDLLTEPDLGVIDLINPDTYRIDPNVLLDP 102  ::	ADEKLIEBEIQAFTSSKRSQQHAKVVPWMRKTEYISTEFNRYGISNEKPEVKIG 156	ALEMASQAMIRGAMDEEGNQFVAYFLPVEETLKKKREDGEEEMDY I	308EENYEFIFREGD-GYYYNELETRYRLSKRRAKAGYQSGTNALLYVKHRDWN 357  1064 GNIISTTTTDENGKYCPNLDSGYIIHFEKPEGHTQTTANSGNDD 1109  356 EKELEAQEARKAQLENHEPEEEEEEMETEEKEAGSDEEQEKGSSSEKEGSE 410      : : :
Oy 469 EDRGOAQGGSDND : 1230 DSDSDSDSDSDSDSDS OY 528 SDSD 531           Db 1287 SDSD 1290	RESULT 15  US-10-689-082-4  Sequence 4, Application US/10689082  BUBLICARION NO. US20040142348A1  GENERAL INFORMATION:  APPLICANT: FOSTER, Timothy  TITLE OF INVENTION: POLYEEPTIDES AI  FILE REFERENCE: P06335UG04/BAS  CURRENT FILING DATE: 203-10-21  PRIOR PILING DATE: 1999-08-31  PRIOR PILING DATE: 1999-08-31  PRIOR PILING DATE: 1999-01-25  NUMBER OF SEQ ID NOS: 39  SOFTWARE: PATENTIN NUMBER: 60/117,11  PRIOR FILING DATE: 1999-01-25  NUMBER OF SEQ ID NOS: 39  SOFTWARE: PATENTIN VERSION 3.1  SEQ ID NO 4  LENGTH: 1742  TYPE: PRT  CREATH: 1742  TYPE: PRT  ORGANISM: Staphylococcus epidermius-	Query Match Best Local Similarity 21 Matches 127; Conservativ Qy 48 PITYPFDQNRFVQY 1:	Oy 103 ADEKLLEBEIQAP	228 946 282 1004	Oy 308EENY Db 1064 GNIISTITIDENC OY 358 EKELEAQEARKA- Db 1110 EKDADGEDVRVTI OY 411 DEHSGESERE-E Db 1170 DSDSDSDSDSDSDA

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Scoring table:	BLOSUM62 Gapop 10.0		Gapext 0.5		191 6.9 598 2 B40713	human
Searched:	283416 seqs		96216763 residues		ALIGNMENTS	
Total number o	of hits satisfy	efylik	ng chosen parameters	B: 283416	RESULT 1	
Minimum DB seq Maximum DB seq	length: length:	2000000000	0000		orhabditis elegans	
Post-processing	g: Minimum Match Maximum Match Listing first	Match Match first	h O% h 100% t 45 summaries	·	ion 15-Oct-1999 #text_change 09- October 1996	Jul-2004
<b>Database</b> :	PIR 79:*  1: pir1:*  2: pir2:*  3: pir3:*  4: pir4:*	* * * *			from GB/EMBL/DDBJ	GSPDB:GN00023; CESP:C
Pred. No. score gree and is de:	No. is the number of regreater than or equal to derived by analysis of	or er	sults predi to the score the total	cted by chance to have a of the result being printed, score distribution.		
	*		SUMMARIES		381/1	
Result No. Score	Query Match Len	gt h	DB ID	Description	Query Match 23.3%; Score 645; DB 2; Length 425; Best Local Similarity 33.1%; Pred. No. 3.8e-26; Matches 146; Conservative 96; Mismatches 165; Indels 34;	Gaps 10;
1 645 2 335.5 3 280.5 4 253	23.3 12.1 10.1 9.2	24844 2484 2454	2 T20261 2 C96828 2 T50233 2 S44541	hypothetical prote unknown protein F1 probable DNA-direc hypothetical prote	24 PERSGVVCRVKYCNSLPDIPFDPKFITYPF-DQNRFVQYKATSLEKCHKHI   : : : : : :	LLTEPDLGV 82  :: : :  VICDDDMGL 73
	9.89	487		neurofilament trip hypothetical prote alutamic acid-rich	TIDLINPDTYRIDP-NVLLDPADEKLLEERIQAPTSSKRSQQHAKVVPMMF	KTEYISTEF 141
	ນ ຜູ້ ທູ້	3 2 2 2 3 2 2 2 3 2 2 2		hypothetical prote hypothetical prote	74 NVDLÍDLKKYDEDPIETEIDEKDNILLEDDGAAKLIAKRSQÓHSKLVPRWH	
	8 8 8 9 . 	933		Clumping factor B fibrinogen-binding hypothetical prote	Qy 142 NRYGISNEKPEVKIGVSVKQQFTBEBIYKDRBSQITALEKIFEDAQKSLSQHYSKFKVIF   : :1:	11SKFKVIF 201          18SKKGVKA 193
	88.0 8.0 9.0 9.0	33 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	2 T28679 2 A71623 2 A54138 2 S38170	fibrinogen-binding probable secreted acidic repetitive SRP40 protein - ye	Qy 202 VEVMPVFPDFRMMINPCAQVIFDSDPAPKDTSGAAALEMMSQAMIRGMMDEBG:	GNQFVAYF 261 :
	0.0.0	166 913 110		fibrinogen-binding neurofilament prot NF-180 - sea lampr	Qy 262 LPVBETLKKRKRDQEEEMDYAPDDVYDYKIAREYNWNVKNKASKGYEENYFFIT 	FIFREGDGV 321 :: EMYHRNNVF 311
	8	3 2 2 1		nypotherical prote ribosomal transcri microtubule-associ qlutamic acid-rich	322 YYNELETRVRLSKRRAKAGVQSGINALLVVKHRDMNEKELEAQEARKAQLEN	6 (
	7.7	000		fibrinogen-binding hypothetical prote	312 QYNEVDCHVYMT-RKPKVALSRKSKLTLTYRNPSELEGKDMNKREAEL 201 BPPWRPPEKFACGSDFROPKGSSSFKFGSEDEHSGSESFREEGDRDEAS	YEQPKIRK 366 KSGSGEDE 438
	7. C.	7 9 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	2 D89852 2 I50479 2 S22314 2 S70358	infinogen-bindalig neurofilament medi transcription fact centromere protein	OBILEKIQEKKEEGGDSSDQSSDSDDKPQKSR	

Page 2	ssion yeast (S. 9-Jul-2004 eam, M.A.; Bar	1.1; GSPDB:GN000.	DLLTEPDLG 81
553-2.rpr	T50233 probable DNA-directed RNA polymerase II regulator [imported] - fission yeast (S. C.Species: Schizosaccharomyces pombe C;Species: Schizosaccharomyces pombe C;Accession: T50233 R;Cadieu, E.; Lelaure, V.; Galibert, F.; McDougall, R.C.; Rajandieam, M.A.; Bar: submitted to the EMBL Data Library, January 1999 A;Reference number: Z25048 A;Reference number: Z25048 A;Reference number: Z25048	PIDN:CAB65804 2; Length 45 2; Indels	QY 26 RSGWCRVKXCNSLPDIPFDPKFITYPPDQNRPVQYKATSLEKQHK4DLLTEPDLG 81
5 2005 us-10-721-553-2.xpr	Oy 439 SEDEARAARDKEE  FGSDAD 459  Db 407 SSDDSPRKKEP  VDSDSD 425  C96828  Unknown protein F19K16.29 [imported] - Arabidopsis thaliana C;Species: Arabidopsis thaliana (mouse-ear cress)  C;Date: 02-Mar-2001 #sequence revision 02-Mar-2001 #text change 09-Jul-2004	C;Accession: C96828 R;Theologis, A.; Ecker, J.R.; Palm, C.J.; Federspiel, N.A.; Kaul, S.; White, O.; Alonso, Chin, C.W.; Chung, M.K.; Copm, L.; Conway, A.B.; Conway, A.R.; Creasy, T.H.; Dewar, K.; ansen, N.F.; Hughes, B.; Hulkar, L. Nature 408, 816-820, 2000 A;Authors: Hunter, J.L.; Jenkins, J.; Johnson-Hopson, C.; Khan, S.; Khaykin, E.; Kim, C.C.A.; Li, J.H.; Li, Y.; Lin, X.; Liu, S.X.; Liu, Z.A.; Luros, J.S.; Maiti, R.; Marziali, Rizzo, M.; Roomey, T.; Rowley, D.; Sakano, H. Rizzo, M.; Roomey, T.; Rowley, D.; Sakano, H. A;Authors: Salzberg, S.L.; Schwartz, J.R.; Shinn, P.; Southwick, A.M.; Sun, H.; Tallon, A;Title: Sequence and analyals of chromosome 1 of the plant Arabidopsis. A;Reference number: A86141; MUID:21016719; PMID:11130712	A;Accession: Cysols A;Accession: Cysols A;Molecule type: DNA A;Residues: 1-547 <sto> A;Residues: 1-547 <sto> A;Constructes: UNIPROT: Q9CA82; GB:AE005173; NID:g6453869; PIDN:AAF09053.1; GSPDB:GN C;Gene: F19K16.29 A;Map position: 1</sto></sto>
Tue Sep 27 06:55:05 2005	Cy 439 SEBDEADARDKEE GSDAD 459	C; Accession: C96828 R; Theologis, A.; Ecker, J.R.; Palm, C.J.; Federspiel, N.; Chni, C.W.; Chung, M.K.; Clnn, L.; Conway, A.B.; Conway, ansen, N.F.; Hughes, B.; Hudtar, L.; Conway, A.B.; Conway, ansen, N.F.; Hughes, B.; Hudtar, L.; Jenkins, J.; Johnson-Hopson, C. C.A.; Li, J.H.; Li, Y.; Liu, X.; Liu, S.X.; Liu, Z.A.; Li, S.A.; Li, J.H.; Li, Y.; Liu, X.; Liu, S.X.; Liu, Z.A.; Li, Rizzo, M.; Rooney, T.; Rowley, D.; Sakano, H. Rizzo, M.; Wo, D.; Yu, G.; Priser, C.M.; Venter, J.C.; Davker, M.; Wu, D.; Tribers, C.M.; Venter, J.C.; Davker, M.; Mu, D.; Tribers of Chromosome 1 of the plant A; Reference number: A86141; MUID:21016719; PMID:11130712	A,Status: Cysolo A,Status: preliminary A,Molecule type: DNA A,Residues: 1-547 <sto> A,Cross-references: UNIPROT: C,Genetics: A,Gene: F19K16.29 A,Map position: 1</sto>

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A, Gene: F19K16.29	6.29	; 
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•	6 QTQAQRED-GHRPNSHRT	δλ
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297	WNVKNKASKGYEENKPIFREGDGVYYNELETRVRLSKRRAKAGVQSGTNALLVVKHRDM 356	1274
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357	NEKELEAGEARKADLENHEPEBEBEBERETEEKEAGGSDEGEKGSSSEKR 407	N,AI
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408	GSEDEHS 414	R, HO
540	GNEDDYS 546	A,Ti

RESULT 3

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A; Molecule type: DNA A; Residues: 1-445 < HOL> A; Cross-references: UNIPROT: P38351; EMBL A; Cross-references: UNIPROT: P38351; EMBL A; A; Reference number: S46157 A; A; Residues: 1-445 < RRA A; Residues: 1-445 < RRA A; Residues: 1-445 < RRA A; Cessaion: S46161 A; Molecule type: DNA A; Residues: 1-445 < RRA A; Cessaion: D406088 A; Molecule type: DNA A; Reference number: J66089; MJD1953 A; Accession: D6091 A; Residues: 1-166, 168-445 < SHI> A; Residues: 1-166, 168-445 < SHI A; Resi	1915, EMBL:X76653, NID:g600025; PIDN:CAA53642.1; PID:g4291 19. Holmstroem, K.; Kallesoe, T.  Ince Database, August 1994  11. A.J.; Made, P. A.; Burton, Z.F.; Jaehning, J.A. 1996 11. A.J.; Made, P. A.; Burton, Z.F.; Jaehning, J.A. 1996 11. S6140434; PMID:g552095 11. Saccharomyces cerevisiae, may 19. S6140434; PMID:g552095 11. S6140434; PMID:g552095 12. S74753 13. MIPS:YBR279W  14. Score 233; DB 2; Length 445; 14. Score 233; DB 2; Length 445; 15. Score 233; DB 2; Length 445; 16. Mill:general protein YBR279W  17. Elen signal 17. Secore 233; DB 2; Length 445; 18. Score 233; DB 2; Length 445; 19. Mill:general protein YBR279W  19. Score 233; DB 2; Length 445; 19. Score 233; DB 2; Length 445; 19. Mill:general general ge	PRESTUTE 5  PRODUCT 10 CONTROL NOT CONTROL NOT CONTROL NOT CENTRAL CONTROL NOT CENTRAL CONTROL NOT CENTRAL CONTROL NOT CENTRAL NOT CENTRAL CONTROL NOT CENTRAL CONTROL NOT CENTRAL CEN	-Jul-2004  ce, expression, and lc which are expressed for the state of

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hypothetical protein 48 - ateline herpesvirus 3 (strain 73) C;Species: ateline herpesvirus 3 A;Variety: strain 73 C;Date: 21-Jan-2000 #sequence_revision 21-Jan-2000 #text_change 09-Jul-2004 C;Accession: T42563 B;Albrecht, J.C.; Fleckenstein, B. submitted to the EMBL Data Library, August 1998 A;Description: Primary structure of the herpesvirus ateles genome. A;Reference number: 222274 A;Accession: T42563 A;Status: preliminary; translated from GB/EMBL/DDBJ A;Molecule type: DNA A;Residues: 1-792 ALB> A;Residues: 1-792 ALB> A;Cross-references: UNIPROT: O9YTL7; EMBL:AF083424; PIDN:AAC95573.1	Ouery Match  Best Local Similarity 21.2%; Pred. No. 3.5e-05; Matches 94; Conservative 69; Mismatches 173; Indels 108; Gaps 14;  Qy 169 YKDRDSQITAIBKMPEDAQKSISQHYSKPRYTPVEVMPVFP 209  Db 213 YQYMSSDLIAIBEAQSSLIAIGSTYPSYSKILELLIANMSKEHIRQKNNYTD 266	Qy 210 DFKWMINPCA-QVI DSDPAPKDTSGAAALEWMSQAMIRGWMDEEGNQ 256	Qy         306 -GYEENYFFIFREGDGVYYNELETRVRLSKRRAKAGVQSGTNAL 348           Db         378 SGRNNKYKGDGANDKDIDKNESEGGDHSEINREKNRRKKRNGFRVGDKEVGE 432           Qy         349	Qy         390 EAGGSDEEQEKGSBEKEGSEDEHSGEESEEDERABA 447           Db         493 EREEDEBEREEBEBEBEBEBEBEBEBEBEBEBEBEBEBEB	A40437 A40437 Glutamic acid-rich protein, retinal - bovine Glopecies: Bos primigenius taurus (cattle) C;Date: 14-Feb-1992 #sequence_revision 14-Feb-1992 #text_change 09-Jul-2004 C;Caccession: A40431 R;Sugimoto, Y.; Vatsunami, K.; Tsujimoto, M.; Khorana, H.G.; Ichikawa, A. Proc. Natl. Acad. Sci. U.S.A, 88, 3116-3119, 1991 A;Title: The amino acid sequence of a glutamic acid-rich protein from bovine retina A;Recession: A40437; MUID:91195303; PMID:2014230 A;Status: preliminary	28181; GB:M61185; NID:g163077; PIDN:AAA30536.1; P 5%; Score 236; DB 2; Length 590; 4%; Pred. No. 4.5e-05; Indels 160; Gaps 28 80; Mismatches 221; Indels 160; Gaps 28

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OY 227 PAPKOTSGAALEMMSQAMIRGMDEGGNGPVAYFLEVETLKGKRRDGEE 277  Db 982 DTEKCSNGLTTTGYIKDADNMTLDSGFYKTPKYSLGDYWWYBSNKDGKOBSTE 1034  OY 278 EMDYAPDDYDYRI	RESULT 10 F90070 Clumping factor B [imported] - Staphylococcus aureus (strain N315) C;Species: Staphylococcus aureus C;Date: 10-May-2001 #sequence_revision 10-May-2001 #text_change 09-Jul-2004 C;Accession: P90070 R;Kuroda, M; Ohta, T:; Uchiyama, I:; Baba, T:; Yuzawa, H:; Kobayashi, I:; Cui, L.; Ogus M; A; Mizutani-Ui, Y; Kobayashi, N:; Sawano, T; Inoue, R.; Kako, C.; Sekimizu, K.; C; Shiba, T:; Hattori, M; Ogasawara, N:; Hayashi, H:; Hiramatsu, K.; C; Shiba, T:; Hattori, M; Ogasawara, N:; Hayashi, H:; Hiramatsu, K.; Lancet 357, 1225-1240, 2001 A;Reference number: A89758; MUID:21311952; PMID:11418146 A;Reference number: A89758; MUID:21311952; PMID:11418146 A;Residues: 1-877 <kur> A;Residues: 1-877 <kur> A;Ross-references: UNIRROT:099R07; GB:BA000018; PID:gl3702588; PIDN:BAB43728.1; GSPDB:(C;Genetics: A;Genetics: /kur></kur>	Query Match         8.3%; Score 230; DB 2; Length 877;           Best Local Similarity         22.6%; Pred. No. 0.00014;           Matches 125; Conservative         76; Mismatches 207; Indels 146; Gaps 23;           Qy         33 VKYCKSLPDIPF-DPKFITYPFDQNRFVQXKATSLEKQHKDLLTEPDLGVFTDLIN 88
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	Cy S31 D 531  Cy 780 D 780  EXESULT 12  A36811  Cypothetical protein ORF48 - saimirine herpesvirus 1 (strain 11)  Cypothetical protein ORF48 - saimirine herpesvirus 1 (strain 11)  Cypothetical protein ORF48 - saimirine herpesvirus 1 (strain 11)  Cypothetical protein ORF48 - saimirine herpesvirus 1 (strain 11)  Cypothetical protein ORF48 - saimirine herpesvirus 1 (strain 11)  Cypothetical protein ORF48 - saimirine herpesvirus 1 (strain 11)  Cypothetical protein ORF48 - saimirine herpesvirus 1 (strain 11)  Cypothetical protein ORF48 - saimirine herpesvirus 1 (strain 11)  Cypothetical Cott. 1992 #sequence_revision 16-Oct-1992 #text_change (8-Oct Cypotheter)  Cypothetical Cott. 1992 #sequence_revision 16-Oct-1992 #text_change (8-Oct Cypotheter)  A, Rocession: A36801  A, Reference number: A36806  A, Residues: 1-797 *ALB>  A, Residues: 1-797 *ALB>  A, Residues: 1-797 *ALB>  A, Reference number: B31309; MUD:9233368; PMID:1321287  A, Reference number: A37309; MUD:9233368; PMID:1321287  A, Rocession: A36806  A, Rocession: A38806  A, Rocession: A3880	n 11) nge (8-Oct-1999 genome. PID:g60369 iesirger, B.; Newman, C.; W
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TIDLINPDTYREDPNVLADPADEKLLEEBIQAPTSSKRSQQHAKVVPWARKTEYISTE	140 QY 269 KKRKRDGEEMDVAPDDVYDXLARE 413 Db 428 KOEKBEGEDEGDEDEGED 195 QY 329 RVRLSKRRAKAGVGGTNALLVVKHR 467 Db 475 EGEDEGDEGEDEGDEG	GVYYNELET   ::   GEDEDDEED EREEMETEE ::   :    :  KDEGDEGDE
Qy 196 KPRVTPVEVMPVFPDFKGMINPCAQVIFDSDPAPKDTSGAAALEMMSQAMIRGM-2  Db 468 NPNQYKVEFNTPDDQITTPYIVVVNGHIDPNSKGDLALRSTLYGYNSNIIWRSMS 5  Qy 250 MDEEGNQPVAYFLPVEETLKKRKRDQEEEMDYAPDDVYDYKIAREXNWNYNKA 3	249 Qy 389 KEAGGSDEEQEKGSSSEKEGSEDEHSGSE 522 Db 526 GDEGDEGEEBEWEDEGEBEGDEGEBEGDEGEBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDEGBEGDE	ASDKGGGEDESSE 441 3EDEGDEGEDE.GE 584 3GGGRSRSHSRSAS 501 1
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Page 7

Best Local Similarity 20.2%; Pred. No. 0.00059; Matches 106; Conservative 90; Mismatches 196; Indels 132; Gaps 20;  Qy S5 QNFVQYKATSLEKQHKHDLTEPDLGVTIDLINPDTYRIDPNVLLDPADEKLL 108	Qy 109 EEEIQAPISSKRS-QQHAKVVPWMRKTEYISTEFNRYGISNEKPEVKIGVS KQGFTEBE 167	Qy 168 IYKDRDSQITAIEKTFEDAQKSISQHYSKPRVTPVEVMPVFPDFKOWHINPCAQVIF 223  193 DTDDEEDTDDBEDTSDBETTGDQENKBETEVDEKKTEKAE	Qy 224 DSDPAPKDTSGAAALEWMSQAMIRGMWDEEGNOFVAYFLPVEETLKKRKRDDEEEMDYAP 283    : :   :   :   :   :   :   :   :   :	Qy 284 DDVYDYKIAREYNWNVKNKASKGYEENYFFIFREGDGVYYNELE RVRLSKRR 336 	Qy 337 AKAGVQSGTNALLVVKHRDMNEKELBAQ-EARKAQLENHEPEEEEEFE WETEEKEAG 392 1	Qy 393 GSDEEQEKGSSSEKEGSEDEHSGSESEREEGDRDEASD 430         ::     :	Qy 431 KSGSCEDESSEDRARARDKEEIFGSDADSEDDADSDDEDRGQAQGGSDNDSDSGSN 487	QY         488 GGGQRSRSHSRSASPPPSGSEHSAQEDGSEAAASDSSEADSDSD         531           I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         <	RESULT 15 A54338	acidic repetitive protein arpi – retranymena chermophila C;Species: Tetrahymena thermophila C;Date: 29-Sep-1999 #sequence_revision 29-Sep-1999 #text_change 09-Jul-2004 C;Accession: A54138	R;Heinonen, T.Y.; Pearlman, R.E. J. Biol. Chem. 269, 17428-17433, 1994 A;Title: A germ line-specific sequence element in an intron in Terrahymena thermophila. A;Reference number: A54138; MUID:94292495; PMID:8021245 A;Accession: A54138; MUID:94292495; PMID:8021245	A; Molecule type: DNA A; Residues: 1-334 <hei> A; Residues: 1-334 <hei> A; Residues: 1-334 <hei> A; Cross-references: UNIPROT:077406; GB:X76125; NID:g426479; PIDN:CAA53731.1; PID:e13260 A; Experimental source: strain CU329, macronuclei A; Note: sequence extracted from NCBI backbone (NCBIN:149332, NCBIP:149333) C; Genetics: Tabi</hei></hei></hei>	A; Genetic code: SGC5 A; Introns: 64/1; 158/1	. Query Match 8.0%; Score 220; DB 2; Length 334; Best Local Similarity 27.6%; Pred. No. 0.00016; Matches 64; Conservative 43; Mismatches 85; Indels 4p; Gaps 11;	OY 336 RAKAGVOSGTNALLVVKHRDWNEKELEAQEARKAQLENHEPEB	Qy 382 EEMETEEKEAGGSDEEQEKGSSSEKEG-SEDEHSGSESEREEGDRDEÅSDKSG 433   :::: :     :     :     :	
A; Status: preliminary; translated from GB/EMBL/DDBJ A;Residues: 1-1315 <jos> A;Residues: 1-1315 <jos> C;Genetics: A;Cross-references: UNIPROT;G86488; EMBL:AJ005646; NID:e1318791; PID:e1318792; PIDN:CAAG C;Genetics: A;Gene: 8drD</jos></jos>	Query Match Best Local Similarity 21,7%; Pred. No. 0.00049; Matches 121; Conservative 85; Mismatches 225; Indels 127; Gaps 23;	Qy 27 SGVVCRVKYCNSLPDIPFDPKFIIYPFDQNRFVQYKATSLEKQHKHDLLTBPDLGVTIDL 86	Qy 87 INPDTYRIDPNVLLDPADEKLLEEEIQAP 115	Qy 116 TSSKRSQQHAKV	Qy 171 DRDSQITAIEKTPEDAQKSISQHYSKPRVTPVEVMPVFPDFKMMINPCAQVIFDSD 226    ::	Qy 227 PAPKDISGAAALEMASQAMIRGMADEEGNOFVAYFLPVEETLKKRRRDQEE 277	Qy 278 EMDYAPDDVYDYKIAREYNWNVKNKASKGYEENYFFIFREGDGVYYNELETRYRLSKR 335  1035 KGIKDVKYTLLANEKGEVIGTTKTDENGKYCFDNLDSGKYKVIFEK- 1079	Qy 336 RAKAGY-QSGTNALLIVVKHRDMNEKELEAQEARKAQLENHEPEBEBEBEBEKEAGGS 394	OY 395 DEEQEKGSSSEKEG EDEHSGSESEREEGDRDEASDKSGSGEDESSEDEARAARDKEEIF 454    :	Qy 455 GSDADSEDDADSDPBDRGQAQGGSDNDSDSGSNGGGQRSRSHSRSASPFPSGSEHSAQED 514		RESULT 14 A71623 probable secreted protein PRB0115w - malaria parasite (Plasmodium falciparum) C;Species: Plasmodium falciparum C;Species: Nov-1998 #sequende_revision 13-Nov-1998 #text_change 09-Jul-2004	, D.J.; Cummings, L.M.; Aravind, L.; Koonin, E.V.; Sutton, G.G.; Clayton, R.; White, O.; Smith, H.O.	human malaria parasite Plasmodium .743; PMID:9804551	A;Status; preliminary; nucleic acid sequence not shown; translation not shown A;Molecule type: DNA A;Residues: 1-1192 <gar> A;Residues: 1-1192 <gar> A;Residues: UNIFOT (996127; GB:AE001373; GB:AE001362; NID:g3845097; PIDN:AAC7181 A;Residuental source: Alond 107</gar></gar>	;	Query Match 8.0%; Score 221; DB 2; Length 1192;

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434SGEDESSEDEARAARDKEEIFGSDADSEDDA-DSDD-EDRGQAQGGSD- 479	142 EDNGDDDSNDDDNGDDENGDDAEDGDDAEDGDDAEDGDDAEDGDDAEDGDDAEDGDDA 199	480 NDSDSGSNGGGQRSRSHSRSASPFPSGSEHSAQEDGSBAASDSSEADSDSD 531	200 EDGDDAEDGDAAEDGDDAEDGDDAEDGDDAEDGDDAEDGDDAEDGDDNE 251
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Abu43459 Protein e Abg93245 C. albica Aae13147 Human ret Ada8960 Staphyloc	72702 Staphyloc 8917 Darhoden	7221 Staphyloc 18485 Staphyloc 19508 Staphyloc	1980) Stannogen 1265 Novel hum 12640 Staphyloc 8640 Staphyloc	8959 Pathogen 88640 S. aureus	7544 Staphyloc 4402 Staphyloc							c; therapy; arcinoma;									atic			on 2 (PD2) x domain and a	ide binding sell are useful	indicated by host cells are	ion markers correlated with	eih represent of pancreatic	4	
26 229 8.3 1920 6 ABU41489 Abu4 27 228 8.2 428 5 ABG93245 Abg9 28 227 8.2 567 4 AAB13147 Aael 29 226 8.2 743 6 ADA89590 Ada88	226 8.2 877 6 ADMASSSS 226 8.2 877 6 ABM72702 226 9.2 6 ABT18017	225.5 8.2 927 6 ABM72221 225.5 8.2 933 3 AAX58435 225.5 8.2 933 4 AAX56508	225.5 8.2 936 2 AAW89801 224.5 8.1 194 4 ABG11265 224 8 1 265 5 ABG32640 224 8 1 265 5 ABG32640	223.5 0.1 1315 5 ABJ18969 222 8.1 1315 5 ABJ18969 222 8.0 918 2 ARY00640	221.5 8.0 1349 4 AAU37544 221.5 8.0 1349 4 AAU37544		ALIGNMENTS	LT 1 2226 AAY42226 standard; protein; 531 AA.	AAY42226;	20-DEC-1999 (first entry)	Human pancreatic differentiation 2 protein sequence.	Human; PD2; cancer; regulation; differentiation; neoplastic; therap pancreatic differentiation 2; diagnosis; pancreatic adenocarcinoma; phosphoprotein.	Homo sapiens.	WO9950408-A1.	07-OCT-1999.	26-MAR-1999; 99WO-US006633.	27-MAR-1998; 98US-0079649P.	(UYNE-) UNIV NEBRASKA.	Batra SK, Hollingsworth MA;	WPI; 1999-591317/50. N-PSDB; AAZ22433.	New phosphoprotein useful as targets for therapy of pancreat	adenocarcinomas.	Claim 7; Fig 2; 97pp; English.	The present sequence is the human pancreatic differentiation 2 (PD2) protein, which comprises an amino terminal helix-loop-helix domain and a	centrally localised nuclear transporter signal and nucleot site The PD2 nucleotide sequence and a transformed host o	for screening a test compounds for PD2 modulating activity an alteration in the phosphorylation of status of PD2. The	assessed for altered expression of pancreatic differentiat (MUC-1 or carbonic anhydrase), and modulating activity is	an alteration in cellular morphology. The PD gene and prot	adenocarcinomas	
								RESULT 1 AAY42226 ID AAY	\$ \$ \$	\$ E \$	<b>88</b> 8	X & & & }		NA X	i & ≱	# # X	R XX	P XX	PI	<b>88</b>	Xt	έX	PS	888	ខេត	មួន	888	88		
5.1.6 Compugen Ltd.		arch time 167 Seconds ut alignments) 59 Million cell updates/sec	QEDGSEAAASDSSEADSDSD 531			: 2105692							d by chance to have a	stribution.		Description		Add18712 Human fis Ado58688 Himan red	Tumour	Abg19682 Nowell hum Aab56316 Human sec	Abb59163 Drosophil Abq19681 Novel hum	Aag03326 Human sec Abg19412 Novel hum		Addisors roccin a Addisors to abuild 313 Descriped to abuild 513 Descriped to a second to	Cell w				Abu16400 Protein e Abu42504 Protein e	
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	OM protein	Run on:	Title: Perfect Sequence	Scoring	Searched	Total nu	Minimum Maximum	Post-processing	Database				Pr	an		Result	- 1					91	125	. 4. r	16.	88 6	285	22	24 3 25 4 3	

PA (OXFO-) OXFORD BIOMEDICA UK LTD.  XX  YI Kingsman SM, White J, Ward NR, Harris RA, Naylor S, Mundy CR;  XX  XX  XX  DR  WPI; 2003-290046/28.  DR  N-PSDB; ADD18713.  XX  New substantially purified polypeptide, useful for diagnosing or treating a hypoxia-regulated condition, such as cancer, ischemia, reperfusion PT injury, retinopathy, pre-eclampsia, atherosclerosis, inflammation, or XX  PY  Wound healing.  XX  SCIAIM 25; SEQ ID NO 143; 424pp; English.	This invention relates to novel human genes and gene product which are implicated in certain disease states. Compounds which modulate the proteins of the invention may have cytostatic, antiinflammatory.  C phthalmological, antiarteriosolerotic or vulnerary activities. The sequences of the invention may be useful for gene therapy. The invention may be useful for gene therapy. The invention may be useful for gene therapy. The invention c c may be useful for diagnosting or treating a hypoxia-regulated condition, cuch as tumourigenesis, anglogenesis, apoptosis, inflammation, c erythropoiesis, or the biological response to hypoxia conditions including processes such as glycolysis, gluconeogenesis, glucose c transportation, catecholamine synthesis, iron transport or fitric oxide synthesis. The disease includes cancer, isonatematic conditions, reperfusion injury, retinopathy, neonatal stress, pre-eclampsia, atherosclarosis, inflammatory conditions or wound healing. The present sequence is that of	CC a disease related protein of the invention.  XX  SQ Sequence 511 AA;  Query Match  Query Match  Best Local Similarity 100.0%; Score 2764; DB 7; Length 531;  Best Local Similarity 100.0%; Pred. No. 1.38-196;  Matches 531; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  Qy   MAPTIOTOAQREDGHRPNSHRTLPERSGVVCRVKXCNSLPDIPFDFRITYPPDQNRFVQ 60  Db   IMAPTIOTOAQREDGHRPNSHRTLPERSGVVCRVKXCNSLPDIPFDFRITYPPDQNRFVQ 60  Qy 61 YKATSLEKGAPDLATPERSPLGVTIDLINPDYNLLDPADEKLLEERIQAPTRSKR 120		Qy         301 NKASKGYEENYFFIFREGDGYYYNELETRYBLSKRRAGGOSGTNALLVYKKRDWBEKE 360           Db         301 NKASKGYEENYFFIFREGDGYYYNELETRYBLSKRRAKAGOGGTNALLVYKKRDWBEKE 360           Db         301 LEAQEARKAQLENHEPEREEREREREAGGSDEEQEKGSSSEKGSEDEHSGSESER 420           Qy         361 LEAQEARKAQLENHEPEREEREREREAGGSDEEQEKGSSSEKGSEDEHSGSESER 420           Db         361 LEAQEARKAQLENHEPEREERERERETEKRAGGSDEEQEKGSSSEKGSEDEHSGSESER 420           Qy         421 EEGDRDEASDKGSGSDESSEDEARAARDKEIFGSDADSDDEDFGGAQGGSDN 480           Db         421 EEGDRDEASDKGSGSDESSEDEARAARDKEIFGSDADSDDEDFGQAQGGSDN 480           Qy         481 DSDSGSNGGGGRSKSHSRSASPPSGSEHSAARDKEIFGSDADSDDEDFGQAQGGSDN 480           Qy         481 DSDSGSNGGGORSRSHSRSASPPSGSEHSAQEDGSEAAASDSSEADSDSG           Db         481 DSDSGSNGGGORSRSHSRSASPPSGSEHSAQEDGSEAAASDSSEADSDSG           S31           RESULT 3
SQ Sequence 531 AA;  Query Match  Query Match  Best Local Similarity 100.0%; Score 2764; DB 2; Length 531;  Best Local Similarity 100.0%; Pred. No. 1.3e-196;  Matches 531; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  QY 1 MAPTIOTOAQREDGHRPNSHRTLPERSGVCRVKYCNSLPDIPPDFKFITYPFDQNRFVQ 60	OY 121 SOQHAKVVPWARKTEYISTEFNRYGISNEKPEVKIGVSVKQOFTEEEIYKDRDSQITAIE 180  121 SQQHAKVVPWARKTEYISTEFNRYGISNEKPEVKIGVSVKQOFTEEEIYKDRDSQITAIE 180  OY 181 KTFEDAQKSISQHYSKPRVTPVEVMPVFPDFKMMINPCAQVIFDSDPAPKDTSGAAALEM 240  Db 181 KTFEDAQKSISQHYSKPRVTPVEVMPVFPDFKMMINPCAQVIFDSDPAPKDTSGAAALEM 240  OY 241 MSQAMIRGMMDEEGNOFVAYFLPVEFTLKKRKRDQEEEMDYAPDDVYDYKIAREYNMNVK 300  101 MKASKGYEENYFTIFREGDGYYYNELETRKRKRDQEEEMDYAPDDVYDYKIAREYNMNVK 300  OY 101 NKASKGYEENYFTIFREGDGYYYNELETRVRLSKRRARQGEEMDYAPDDVYDYKIAREYNMNVK 300	301 361 421 421 481	21,00	KW inflammation; erythrophesis; apoptosis; KW inflammation; erythrophesis; gluconegenesis; apoptosis; KW glucose transportation; catecholamine synthesis; incommentation; erythrophesis; incommentation; catecholamine synthesis; incommentation; catecholamine condition; reperfusion injury; KW inflammatory condition; wound healing.  XX XX Homo sapiens.  XX XX W02003018621-A2.  XX XX W7 23-AUG-2002; 2002WO-GB003892.  XX

	531 531 n; cancer;	nd nucleic acids, ecting a 1, ovarian or igenic target (TAT)
SQCHAKVVPWMRKTEYISTEFNRYGISNEKPEVKIGVSVKQOFTEEIYKDRDSQITAIE SQCHAKVVPWMRKTEYISTEFNRYGISNEKPEVKIGVSVKQOFTEEIYKDRDSQITAIE SQCHAKVVPWMRKTEYISTEFNRYGISNEKPEVKIGVSVKQOFTEEIYKDRDSQITAIE KTFEDAQKSISQHYSKPRYTPVBVWPVPPDFKMINPCAQVIFDSDPAPKDTSGAAALEM MSQAMIRGMDEEGNOFVAYPLPVEVNPVFPDFKMINPCAQVIFDSDPAPKDTSGAAALEM MSQAMIRGMDEEGNOFVAYPLPVETLKKRKRDGEEMDYAPDDVYDYKIAREYNMVK MSQAMIRGMDEEGNOFVAYFLPVETLKKRKRDGEEMDYAPDDVYDYKIAREYNMVK MKASKGYEENYFFIFREGDGVYYNELETRYRLSKRRAKAGVOSGTNALLVVKHRDMVEKE LEAQEARKAQLENHEPBEEBEEEEFEFEKAGGSDEEQEKGSSSEKEGSEDEHSGSESER LEAGEARKAQLENHEPBEEBEEEEFEKARLSKRRAKAGGVOSGTNALLVVKHRDMVEKE NKASKGYEENYFFIIREGDGVYYNELETRYRLSKRRAKAGVOSGTNALLVVKHRDMVEKE NKASKGYEENYFFIIREGDGVYYNELETRYRLSKRRAKAGVOSGTNALLVVKHRDMVEKE LEAGEARKAQLENHEPBEEBEEEEFEKAGGSDEEQEKGSSSEKEGSEDEHSGSESER LITTILITILITILITILITILITILITILITILITILI	DEDGGSNGGGORSREASSAPPENGGEHSAQEDGSEAAASDSSEADSDSD DEDGGSNGGGORSREASSAPPENGGEHSAQEDGSEAAASDSSEADSDSD DEDGGSNGGGORSREASSAPPENGGEHSAQEDGSEAAASDSSEADSDSD Standard; protein; 531 AA.  104 (first entry) 105 (first entry) 106 (first entry) 107 (first entry) 108 (first entry) 108 (first entry) 108 (first entry) 109 (first ent	c target polypeptides tent for treating or del breast, lung, colorecting); English.  In tumour-associated ant ed nucleic acids. The?
121 SQQHAKVVPWMRKTEYISTE 121 SQQHAKVVPWMRKTEYISTE 181 KTPEDAQKSISQHYSKPRVT 181 KTPEDAQKSISQHYSKPRVT 241 MSQAMIRGMADESGNGFVAY 241 MSQAMIRGMADESGNGFVAY 301 NKASKGYEENYFFIFREGDC 1		New tumor-associated antigenic target polypeptides and nucleic acids, useful in preparing a medicament for treating or detecting a proliferative disorder, e.g. breast, lung, colorectal, ovarian or prostate cancer or tumor.  Claim 12; SEQ ID NO 5424; 7273pp; English.  The invention relates to human tumour-associated antigenic target (TAT) polypeptides, and their related nucleic acids. The TAT polypeptides are
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liferation;	H; d treatment of d treatment of l) selected nces of SEQ ID (II) comprising the g (II) and a host cell host cell a igand, n a sample l a plurality ation of nd detecting rocein nd detecting rocein art by art by art bart	; Gaps 0; FDONRFVQ 60 FDONRFVQ 60 APTSSKR 120 QAPTSSKR 120
in; 531 AA.  y) e HRM-9.  tor; agonist; antagonist; gene therapy; e; HRM; disease development; cell proliferation; 0787.	Au-Young J, Yue H;  n the diagnosis and t amino acid sequence de polynuclectide (II the complement of the position comprising ( containing (II); a ho position comprising ( containing (II); a ho pression of ancleic pression of ancleic pression of ancleic pression of (II); and human couprising (I) and thuman regulatory profe ase development and iss a need in the art in the diagnosis and ion, particularly imm acid sequence of a h acid sequence of a	TABLE   100   1   1   100   1   1   100   1   1
	Dandman O, Shah P,  C,  C,  C,  C,  C,  C,  C,  C,  C,	100.0%; Pred. No. 1.  1ve 0, Mismatches Cdr. Prop. No. 1.  Cdr. Prop.
ADOS8688 standard; protein; ADOS8688; 15-JUL-2004 (first entry) Human regulatory molecule Hi cytostatic; immunomodulator, human regulatory molecule; b immune response; cancer. Homo sapiens. 16-MAY-2002. 26-SEP-2001; 2001US-0084078: 23-SEP-1997; 97US-00938756	103-MAR-2000; 2000US-00518865  (INCY-) INCYTE PHARM INC.  Lal P, Hillman JL, Bandman Guegler KJ, Corley NC;  WPI; 2004-459763/43.  N-PSDB; ADOSB737.  Claim 1; SEQ ID NO 9; 116pp;  The invention describes huma from a group comprising the NOS: 1-49. Also described are a nucleic acid sequence enco polynucleotide (SEQ ID NOB: 2-porter molecule; an expression in a mucleic acid sequence enco polynucleotide (SEQ ID NOB: 3-porter molecule; an expression in a dagnosing (M3) a disease as containing the vector; detec sample; screening (M2) a plus dagnosing (M3) a disease as of molecules to identify a langual molecules in a molecules which are expresse polynucleotides which are expresse polynucleotides which are expresse polynucleotides which are expressed providing compositions which diseases and cancers. This regulatory molecule.	cal S 531 1 1 61
ADOSB688  I D ADOS  AC ADOS  XX ADOS  XX ADOS  XX ADOS  XX ADOS  XX Cyto  XX Cyto  XX Homo  X	(INCY-) Lal P, Guegler Guegler WPI; 20 N-PSDB; New hum cancer Claim 1 The inn From a NOB: 1- a nucle anucle context co	Matches

sapiens.

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Yamamoto

Saito K, Otsuki

Hayashi K, S A, Nagai K,

Wakamatsu

Isogai T, Nishikawa T, , Sugiyama T, Wakamatsu

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29-JUL-1999; 99JP-00248036.
27-A02-1999; 99JP-00300253.
11-JAN-2000; 2000JP-00118776.
02-MAY-2000; 2000JP-00183767.
   28-JUL-2000; 2000EP-00116126.
  09-JUN-2000; 2000JP-00241899
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coverexpressed in cancer tissues compared to normal tissues, and may thus server as effective targets for the diagnosis and treatment of cancer in mammals. The invention also relates to nucleic acid and polypeptide can least 80% identical to the TAT nucleic acids and polypeptide expression vectors and host cells comprising a TAT nucleic acid; an antibody specific for a TAT polypeptide; a peptide or organic molecule which binds to a TAT polypeptide; a peptide or organic molecule which binds to a TAT polypeptide; and methods and compositions for the treatment or TAT polypeptide; and methods and compositions for the treatment or antibodies, antagonists, binding molecules and compositions are useful for diagnosing or treating a cell proliferative disorder associated with increased TAT expression, particularly cancers such as breast cancer, colorectal cancer, lung cancer, varian cancer, liver cancer, bladder cancer, pancreatic cancer, and leukaemia. TAT nucleic acids may further be used as hybridisation probes, in chromosome and gene mapping, in chromosome and in gene therapy. The present sequence
  SOQHAKVVPWARKÜEYISTEPNRYGISNEKPEVKIGVSVKOOFTEERIYKDRDSOITAIE 180
  MSQAMIRGMMDEEGNQFVAYFLPVEETLKKRKRDQEEEMDYAPDDVYDYKIAREYNWNK 300
  TEPDLGVTIDLINPDTYRIDPNVLLDPADEKLLEEEIQAPTSSKR 120
   KTFEDAQKSISQH¥$KPRVTPVEVMPVFPDFKMMINPCAQVIFDSDPAPKDTSGAAALEM 240
  240
   MSQAMIRGHMDEEGNQFVAYFLPVEETLKKRKRDQEEEMDYAPDDVYDYKIAREYNWNVK 300
  *REGDGVYYNELETRVRLSKRRAKAGVQSGTNALLVVKHRDMNEKE 360
   FREGDGYYYNELETRVRLSKRRAKAGVQSGTNALLVVKHRDMNEKE 360
  RPEEEEEEEMETEEKEAGGSDEEQEKGSSSEKEGSEDEHSGSESER 420
  LEAQEARKAQLENHEPEEEEEEEEEFETEEKEAGGSDEEQEKGSSSEKEGSEDEHSGSESER 420
   SEDESSEDEARAARDKEEIFGSDADSEDDADSDDEDRGQAQGGSDN 480
   EEGDRDEASDKSGGGGEDESSEDEARAARDKEEIFGSDADSEDDADSDDEDRGQAGGSDN 480
   9
   9
   1 MAPTIQTQAQREDGHRPNSHRTLPERSGVVCRVKYCNSLPDIPFDPKFITYPFDQNRFVQ
   KTFEDAQKSISQHKBKPRVTPVEVMPVFPDFKMMINPCAQVIFDSDPAPKDTSGAAALEM
   IRPNSHRTLPERSGVVCRVKYCNSLPDIPFDPKFITYPFDQNRFVQ
   Gaps
  SHSRSASPFPSGSEHSAQEDGSEAAASDSSEADSDSD 531
  DSDSGSNGGGGRSR$HSRSASPPPSGSEHSAQEDGSEAASDSSEADSDSD 531
   ö
   Length 531;
   Indels
   100.0%; Score 2764; DB 8;
100.0%; Pred. No. 1.3e-196;
11pc 0; Mismatches 0;
   represents a TAT polypeptide of the invention
   Conservative
   NKASKGYEENYFFE
   EEGDRDEASDKSGS
  YKATSLEKQHKHDİ
  LEAGEARKAQLENH
   MAPTIQTQAQRED
   Query Match
Best Local Similarity
   Sequence 531 AA;
  531;
   61
  61
  121
   121
   181
  241
  241
   301
  421
  481
  181
  301
  361
   361
   421
  481
   Matches
  RESULT 5
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The present invention describes primer sets for synthesising 5602 fulllength cDNAs defined in the specification. Where a primer set comprises:

(a) an oligo-dr primer and an oligonucleotide comprises one of the 5602
complementary strand of a polymucleotide which comprises one of the 5602
nucleotide sequences defined in the specification, where the
complementary strand of a polymucleotide which comprises a combination
of an oligonucleotide comprises a sequence complementary to the
complementary strand of a polymucleotide which comprises a 5'-end
complementary strand of a polymucleotide which comprises a 5'-end
complementary strand of a polymucleotide of the comprises a 5'-end
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complementary strand of a polymucleotide of the comprises a 5'-end
coligonucleotide comprises a 1-end sequence, where the
coligonucleotide which comprises a 1-end sequence in antisense therapy and in
complementary full-length cDNAs. The primers are also useful for the
chetction and/or diagnosis of the abnormality of the proteins encoded by
the full-length cDNAs. The primers allow obtaining of the full-length
converse the without any specialised methods. AAH01166 to AAH13612 represent
coligonucleotides, all of which are used in the exemplification of the
coligonucleotides, all of which are used in the exemplification of the 120 120 180 240 240 Primer sets for synthesizing polynucleotides, particularly the 5602 full-length cDNAs defined in the specification, and for the detection and/or diagnosis of the abnormality of the proteins encoded by the [full-length 180 9 1 MAPTIQTQAQREDGHRPNSHRTLPERSGVVCRVKYCNSLPDIPFDPKFITYPFDQNRIVQ 61 YKATSLEKQHKHDLLTEPDLGVTIDLINPDTYRIDPNVLLDPADEKLLEEHIQAPTSSKR SQQHAKVVPWMRKTEYISTEFNRYGISNEKPEVKIGVSVKQQFTEEEIYKDRDSQITAIE TSGAAALEM Gaps YKATSLEKQHKHDLLTEPDLGVTIDLINPDTYRIDPNVLLDPADEKLLEBEI KTFEDAQKSISQHYSKPRVTPVEVMPVFPDFKMWINPCAQVIFDSDPAPKD Claim 8; SEQ ID NO 12853; 2537pp + Sequence Listing; English 99.3%; Score 2744; DB 4; Length 531; 99.4%; Pred. No. 3.9e-195; ive 0; Mismatches 3; Indels 1 MAPTIQTQAQREDGHRPNSHRTLPERSGVVCRVKYCNSLPDIPFDPKFIT Best Local Similarity 99.4%; Matches 528; Conservative WPI; 2001-318749/34. Sequence 531 AA; 61 181 Query Match 121 셤 ઠે g ò g

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h; diagnosis; antisense therapy; gene therapy.

Human protein sequence \$EQ ID NO:12853.

Human; primer; detectio

(first entry)

26-JUN-2001

AAB93517;

ein; 531 AA

AAB93517 standard; prop

diagnostics, forensics, gene mapping, identification of mutations responsible for genetic disorders or other traits to assess biodiversity and to produce other types of data and products dependent on DNA and amino acid sequences. ABG00010-ABG30377 represent novel human diagnostic patent did not appear in the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences  Sequence 553 AA;  Query Match  Best Local Similarity 95.0%; Pred. No. 9.2e-189;  Matches 515; Conservative 6; Mismatches 10; Indels 11; Gaps 1;  MAPTICTOROREDGHRPNSHRTLPERSGVVCRVKYCNSLPDIPFDPKFITYFFDONRFVQ 01	111122266	410 EDEHSGESERBEGDREASDESSEDERARARDEEFFGSDADSEDDADSEDDAGGES
300 CC 300 CC 360 CC 420 CC 420 CC 420 CC 480 Out 480 Out 480 Out 480 Out 480 Out 480 Out 90 Out	8 8 8 8 8 8 8 8 8	T) AAB56  OY OY OY OY OY OY OY OY OY OY OY OY OY
### ##################################	ein; 553 AA.  ry)  protein #19673.  ng; gene mapping; gene therapy; forensic;  limaging; diagnostic; genetic disorder.	and encoded polypeptides, useful in smapping, identification of mutations reders or other traits and to assess that polymerate or other traits and to assess that polymerate or other probes, polymerate chain formers, and for chromosome and gene mapping of full The polymerate or and gene mapping of for identifying expressed therapy techniques to restore normal steases tates involving (II) is disease states involving (II) is disease and as a food all accular weight markers and as a food all particular weight markers and as a food all particular weight may applications in the sequences have applications in
241 MSQAMIRGMEDERGNQ 241 MSQAMIRGMEDERGNQ 301 NKASKGYEENYFFIFR 301 NKASKGYEENYFFIFR 301 NKASKGYEENYFFIFR 301 LEAQEARKAQLENHED 361 LEAGEARKAQLENHED 421 EEGDRDEASDKSGSGCE 421 EEGDRDEASDKSGSGCE 421 EEGDRDEASDKSGSGCE 431 DSDSGSNGGGGRSRSH 481 DSDSGSNGGGGRSRSSH 481 DSDSGSNGGGGRSRSSH 481 DSDSGSNGGGGRSRSSH	dard; prot (first ent diagnostic some mappi ent; medica	30-MAR-2001; 2001MO-US008631.  31-MAR-2000; 2000US-00649167.  23-AUG-2000; 2000US-00649167.  (HYSE-) HYSEQ INC.  Drmanac RT, Liu C, Tang YT;  New isolated polynuclectide and ediagnostics, gene mapper responsible for genetic disordere biodiversity.  Claim 20; SEQ ID NO 50041; 103pp;  The invention relates to isolated sequences. (I) is useful as hybricaction (PCR) primers, oligomers and in recombinant production of in diagnostics as expressed sequences. (I) is useful in gene their diagnostics as expressed sequence crivity of (II) or to treat dissupplement. (II) and its binding of sites expressing (II) and its binding of sites expressing (II) express polypeptide and polynuchecide sequences polypeptide and polynuchecide sequences.

Homo sapiens.	
	301 NKASKGYEENYFPIFREGDGVYYNELETRVRLSKRRAKAGVQSGTNALLVVKHRDMNEKE 360 
11-MAY-2000, 2000WO-USD12788.	361 LEAQEARKAQLENHEPEEEEEEMETEEKEAGGSDEEQEKGSSSKKEGSEDEHSGSESER 420
13-MAY-1999; 99US-0134068P. QY	421 EEGDRDEASDKSGSGEDESSEDEARAARDKEEIFGSDADSEDDADSDDEDRGQ 473
(HUMA-) HUMAN GENOME SCI INC.	421 EEGDRDEASDKSGSGEDESSEDEARAARDKEEIFGSDADSEDDADSDEDRGQ 473
Rosen CA, Ruben SM, Moore PA, Young PE, Komatsoulis GA, Birse CE;  Duan RD, Florence KA, Soppet DR;	M.T. 8
	SAL63 ABB59163 standard; protein; 538 AA.
Isolated nucleic acid molecule encoding a human secreted protein is used  AC in preventing, treating or amelicating a medical condition.	ABB59163;
ge 1041-1042; 1065pp; English.	26-MAR-2002 (first entry)
	Drosophila melanogaster polypeptide SEQ ID NO 4281.
ine Polymentecture supplements bytem in Analyson to Analyson, encore the human secreted proteins given in AAB56077 to AAB56362. Human secreted when the proteins have activities based on the tissues and cells the genes are	Drosophila; developmental biology; cell signalling; insectidide; pharmaceutical.
	Drosophila melanogaster.
	WO200171042-A2.
	27-SEP-2001.
	23-MAR-2001; 2001WO-US009231.
	23-MAR-2000; 2000US-0191637P.
	EKE ) PE CC
	Venter JC, Adams M, Li PWD, Myers EW;
	WPI; 2001-656860/75.
r .	
capabilities. AAC99809 to AAC99817 and AAB56076 represent sequences used PT in the exemplification of the present invention PP PT PT	New isolated nucleic acid detection reagent for detecting 1400 or more genes from Drosophila and for elucidating cell signaling and cell-cell interactions.
473 AA;	Disclosure; SEQ ID NO 4281; 21pp + Sequence Listing; English.
nery Match 89 1%; Score 2464; DB 3; Length 473; XX str. Local Similarity 99 8%; Pred. No. 2.1e-174; CC trches 472; Conservative 0; Mismatches 1; Indels 0; Gaps 0; CC	The invention relates to an isolated nucleic acid detection reagent capable of detecting 1000 or more genes from Drosophila. The invention is
	useful in developmental blocky and in eluciaciny cit styleting and cell-cell interactions in higher eukaryctes for the development of insecticides, therapeutics and pharmaceutical drugs. The invention
09	discloses genomic DNA sequences (ABL16176-ABL30511), expressed DNA sequences (ABL01840-ABL16175) and the encoded proteins (ABB57737-2)
61 YKATSLEKQHKHDLİTEPDLGVTIDLINPDTYRIDPNVLLDPADEKLLEEBIQAPTSSKR 120 CC	ABB72072). The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences
SQQHAKVVPMMRKTEYISTEFNRYGISNEKPEVKIGVSVKQQPTEEEIYKDRDSQITAIE 180	Sequence 538 AA;
	45.0%; Score 1244.5; DB 4; Length 538; nilarity 50.0%; Pred. No. 9.3e-84;
240	vative 66; Mismatches 172; Indels 33; Gaps
	1 MAPTIQTOAQREDGHRENSHRILDERSGYVCRVXXCNSLP11FPDKKITYBFDQNRFVQ 60

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Alypeptide (II) ie Chain et Chain et Chain are also used expressed normal normal food if of the constitution a if of the constitution a ing disorders y The ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations ations	h 133; els 70; Gaps 1; EGDGVYYBELETRVRL 332 35 EEEEEEERETEEKEAG 392	NA isolation;
Claim 20; SEQ ID NO 50040; 103pp; English.  XX  The invention relates to isolated polynucleotide (I) and polypeptide (II)  Sequences. (I) is useful as hybridisation probes, polymerase fanin  caction (PCR) primers, oligomers, and for chromosome and gene mapping,  and in recombinant production of (II). The polynucleotides are also used  in diagnostics as expressed sequence tags for identifying expressed  cc in diagnostics as expressed sequence tags for identifying expressed  cc in diagnostics as expressed sequence tags for identifying expressed  cc trivity of (II) or to treat disease states involving (II). (II) is  cc useful for generating antibodies against it, detecting or quantitating  bolypeptide in tissue, as molecular weight markers and as a food  cupplement. (II) and its binding partners are useful in medical imaging  cc sites expressing (II). (I) and (II) are useful for treating disorders  cc involving aberrant protein expression or biological activity. The  polypeptide and polymucleotide sequences have applications in  diagnostics, forensics, gene mapping, identification of mutations  cc responsible for genetic disorders or other traits to assesse biodiversity  and to produce other types of data and products dependent on DNA and  cc maino acid sequences. ABG00010-ABG30377 represent novel human diagnostic  cmino acid sequences of the invention. Note: The sequence data for this  patent did not appear in the printed specification, but was obtained in  clectronic format directly from WIPO at  the wipo int/pub/published_pct_sequences  XX  Sequence 133 AA:	22.5\$; Score 622; DB 4; Lengt 64.4\$; Pred. No. 2.6e-38; ervative 0; Mismatches 2; Ind DYAPDDVVDYKIAREYNWAVKAKASKGYEKNFFIFR	RESULT 10 AAG03326 standard; protein; 115 AA. XX AC AAG03326; XX AC AAG03326; XX DT 06-OCT-2000 (first entry) XX KW Human; 5' EST; expressed sequence tag; secreted protein; CDNA XX KW Gene therapy; chromosome mapping. XX KW Gene therapy; chromosome mapping. XX KW Gene therapy; chromosome mapping. XX KW Gene therapy; chromosome papping. XX KX KX KX KX KX KX KX KX KX KX KX KX
YKATSLEKQHKHDULTEPDLGVTIDLINPDTYRIDPNVLLDPADEKLLEEEIQAPTSSKR 120  YNPTSLERNPKYDVLTEHDLGVTVDLINRELYQADSNTLLDPPADEKLLEEEILAPTDSVR 119  SQQHAKVVPWRKTIBYISTEPNRYGISN-EKPEVKIGVSVKQOFTEEEIYDRDSGITAI 179  SQQHAKVVPWRKTIBYISTEPNRYGISN-EKPEVKIGVSVKQOFTEEEIYDRDSGITAI 179  SQHAKVVPWRKTIBYISTEPNRYGISN-EKPEVKIGVSVKQOFTEEEIYJDREAQIKAI 179  SRQHSRTVSMLKKSBYISTEPNRYGISN-EKPEVKIGVSVKQOFTEEEIYJDREAGIKAI 179  EKTPEDAQXSISQH'SKERVTPVEVWPVFPDFKWMINPCAQVIFDSDPAPAGKAVPAQLE 239  EKTPEDAQXSISQH'SKERVTPVEVETLKKRKRDGEEEMDYAPDDYYDYKIAREYNMNV 299  EKTPSDTKSEITKH'SKENVVPVEVLPIPPDFTNWKFPCAQVIFDSDPAPAGKAVPAQLE 239  MMSQAMIRGYMDESGAQFVAYFLPTEGTLEKRRTDFINGELYKEEEEYKIAREYNMNV 299  KNKASKGYEENYFFIRERGDGVYYNELETRYRLSKRARAGVOSGTNALLVYKHRDMNEK 357  KNKASKGYEENYFFIRERGDGVYYNELETRYRLSKRARAGVOSGTNALLVYKHRDMNEK 357  ELEAQEARKAQLENJEDEEEEEEEMFTEEKEAGGSD 395  EHRNÖRYRERQLEVPGEEEEIVEEVREEEQMQIIGETEKTSEDAAVGAQAASGADSPAQV 417	KSGSR- SEHSAQ   : SSSGSA	Human; chromosome mapping; gene mapping; gene therapy; forensic; food supplement; medical imaging; diagnostic; genetic disorder.  Homo sapiens.  WO200175067-A2.  11-OCT-2001.  30-MAR-2001; 2001WO-USG08631.  31-MAR-2000; 2000US-00649167.  (HYSE-) HYSEQ INC.  Drmanac RT, Liu C, Tang YT;  WPI; 2001-639362/73.  New isolated polymucledtide and encoded polypeptides, useful in diagnostics, forensics, gene mapping, identification of mutations responsible for genetic disorders or other traits and to assess biodiversity.
61 YKATSLEKOHKHDLITTEPDLG 60 YNPTSLERNPKYDVALTEHDLG 121 SQQHAKVVPWMKKJEYISTEF 120 SRQHSKVVPWMKKJEYISTEF 120 SRQHSKTVSWLRKSEYISTET 120 SRQHSKTVSWLRKSEYISTET 180 EKTPEDAOXSISQHYSKPRVT 180 EKTPSDTKSEITKHYSKPNVV 240 MASQAMIRGYMDEGGOFVAX 240 MASQAMIRGYMDEGGOFVAX 240 EKSQAMIRGYMDEGGOFVAX 300 KTKASKGYEENYFIIFREGDG 360 ELEAQEAKRAQLENHEREBEE 1	. O F	Human; chromosome mapping; g food supplement; medical ima Homo sapiens.  11-OCT-2001.  30-MAR-2001; 2001WO-USC08631  31-WAR-2001; 2001WS-00540217  23-AUG-2000; 2000US-00549167  (HYSE-) HYSEQ INC.  Drmanac RT, Liu C, Tang YT WPI; 2001-639362173.  N-PSDB; AAS83868.  New isolated polynuclectide diagnostics, forensics, gene diagnostics, forensics, gene biodiversity.

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The invention relates to isolated polynucleotide (I) and polypeptide (II) sequences. (I) is useful as hybridisation probes, polymerase chain reaction (PCR) primers, oligomers, and for chromsome and gene mapping, and in recombinant production of (II). The polynucleotides are also used in diagnostics as expressed sequence tags for identifying expressed in diagnostics as expressed sequence tags for identifying expressed corpus of (II) or to treat disease states involving (II). (II) is useful for generating antibodies against it, detecting or quantitating a cupypeptide in tissue, as molecular weight markers and as a food supplement. (II) and its binding partners are useful in medical imaging of sites expressing (II). (I) and (II) are useful for treating disorders involving abstrant protein expression or biological activity. The polypeptide and polynucleotide sequences have applications in diagnostics, forensics, gene mapping, identification of mutations in cesponable for genetic disorders or other traits to assess bloidversity and conduce other types of data and products dependent or DNA and amino acid sequences of the invention. Note: The sequence data for this patent did not appear in the printed specification, but was obtained in celectronic format directly from WIDO at
   328 TRVRLSKRRAKAGVQSGTNALLVVKHRDMNEKELEAQEARKAQLENHEPEGEEEEEMETE 387
   3 SRVRLSKRRAKAGVQSGTNALLVVKHRDMNEKELEAQEARKAQLENHEPEHEEEEIRQP
   vulnerary;
   Gaps
   gtem cell;
responsible for genetic disorders or other traits and to assess biodiversity.
   antiinflammatory; neuroprotective; antianaemic; cytostatic; inflammatory; haematopoiesis; immunity; neurodegenerative; saplastic anaemia; cancer; wound healing; gene therapy.
  10.2%; Score 283; DB 4; Length 475; 87.7%; Pred. No. 2e-12; ive 3; Mismatches 5; Indels
   1. 475
|label= Unknown, OTHER
|note= "OTHER = In-frame STOP codon"
   Human therapeutic contig protein - SEQ ID 2502.
  Claim 20; SEQ ID NO 49771; 103pp; English
  Location/Qualifiers
   ADS12265 standard; protein; 475 AA
  30-SEP-2003; 2003WO-US030720.
  02-OCT-2002; 2002US-0416186P.
   (first entry);
  57, Conservative
   Local Similarity
   (NUVE-) NUVELO INC.
  388 EKBAG 392
  63 RKKLĞ 67
   Misc-difference
  Sequence 475 AA;
  WO2004080148-A2
  Homo sapiens
  16-DEC-2004
   23-SEP-2004.
  ADS12265;
   Query Match
  Matches
  RESULT 12
  ADS12265
    ઠે
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  ઠે
  셤
   The present sequence is a polypeptide encoded by one of a large number of 5. ESTB derived from mRNAs encoding secreted proteins. The 5. ESTB were prepared from total human RNAs or polyA+ RNAs derived from 30 different tissues. EST sequences usually correspond mainly to the 3' untranslated region (UTR) of the mRNA because they are often obtained from oligo-dT primed cDNA libraries. Buch ESTB are not well suited for isolating cDNA primed cDNA libraries. Buch ESTB are not well suited for isolating cDNA equences have been obtained, the full 5' UTR is rarely included. 5' ESTB are derived from mRNAs with intact 5' ends and can therefore be used to obtain full length cDNAs and genomic DNAs. 5' ESTB are also used in diagnostic, forensic, gene therapy and chromosome mapping procedures. They are used to obtain upstream regulatory sequences and to design expression.
  9
   9
   1 MAPTIQTQAQREDGHRPNSHRTLPXXSGVVCRVKYCNSLPDIPPDPKFITYPPDQNRFVQ
  1 MAPTIQTQAQREDGHRPNSHRTLPERSGVVCRVKYCNSLPDIPFDPKFITYPFDQNRFVQ
   Gaps
   gene therapy and chromosome mapping procedures
   TEPDLGVTIDLINPDTYRIDPNVLLDPADEKLLEBEIQAP 115
   correspond to 5'ESTs and for
   ide and encoded polypeptides, useful in gene mapping, identification of mutations
  nucleic acid that he a 5' expressed sequence tag (5' EST) for
   Human, chromosome mapphd; gene mapping; gene therapy; forensic; food supplement; medical imaging; diagnostic; genetic disorder.
   ö
   Score 595; DB 3; Length 115;
Pred. No. 2.1e-36;
0; Mismatches 4; Indels
  Claim 13; SEQ ID NO 74b | b \rangle; 71pp + Sequence Listing; English.
    Giordano J;
  Novel human diagnostic protein #19403.
    Duclert A,
  ABG19412 standard; propein; 475 AA.
   gephmic DNAs
  30-MAR-2001; 2001WO-USDD8631.
   31-MAR-2000; 2000US-00640217.
23-AUG-2000; 2000US-00649167.
  .54;
.54;
  New isolated polynuclebide
diagnostics, forensics, gene
   (first entry)
   YKATSLEKQHKHDL
       Dumas Milne Edwards J,
   Best Local Similarity 9
Matches 111; Conservati
   diagnostic, forensic,
   WPI; 2000-500381/45
   WPI; 2001-639362/73.
  cDNAs and
  Drmanac RT, Liu C,
  (HYSE-) HYSEQ INC.
   N-PSDB; AAC03332
   Sequence 115 AA;
   N-PSDB; AAS83599
  WO200175067-A2.
   13-FEB-2002
   Homo sapiens
   11-OCT-2001.
  obtaining
   61
  Query Match
  ABG19412;
  RESULT 11
ABG19412
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XX  The invention relates to multiprotein complexes from eukaryotes. Proteins CC of the invention and DNA sequences encoding them are given in records CC ABR52568-ABR53903 and ACC6610-ACC61944 respectively. The complexes are obtainable by using a protein as a bait and isolating the set of proteins which is attached thereto from cells. Such protein complexes may comprise up to 30 distinct proteins. Protein complexes of the invention are useful CC of adhamosing a disease or disorder, or as a target for an Active agent of a pharmaceutical, preferably a drug target in the treatment or correction of a disease or disorder. Note: The sequence data for this patent is not represented in the printed specification, but is based on sequence information supplied by the European Patent Office. The complete CC document is available on CD-ROM  XX  Squence 445 AA;  Query Match  Best Local Similarity 2.1%; Pred. No. 3.2e-10;  Matches 112; Conservative 96; Mismatches 184; Indels 114; Gaps 21;  Matches 112; Conservative 96; Mismatches 184; Indels 114; Gaps 21;  Ay 13 LPERSGVUCRYKXCNSLPDIPPEDKFITTYPFDONFYQYKATSLEKQHK 71  INSKKOEXIAPIKYQNSLPDIPPEDKLLUYPESPETNADSSQLINSLYIKTNYTNLIOQO 58	72 HDLLTEPDLGVTIDL1NPDTYRIDPNVLLDPADEKLLEBEIDAPPSKRS 121  Db
PI Tang YT, Aeundi V, Ren F, Zhang J, Wehrman T, Wang Z, Ma Y;  XX XX WPI; 2004-668857/65.  DR N-PSDB; ADS11667.  XX New polynucleotide, useful in preparing a composition for diagnosing or treating inflammatory, neurodegenerative or stem cell disorders, e.g., aplastic anemia or cander for promoting wound healing.  XX XX The invention relates to a novel isolated polynucleotide and the encoded polypeptide. The molecules of the invention demonstrate antinflammatory, neuropyrective, antinflammatory, neurodegeneratic and vulnerary activities and may consolute, and an anostic inflammatory, haematopolietic, immune, neurodegenerative or stem cell solute may a language or promoting cound healing. The molecules may also be utilised during gene therapy protein of the invention.  XX XX Sequence 475 AA; Squence 475 AA;	Query Match   10,24;   Score 283;   DB 8;   Length 475;     Matches 57;   Conservative 67;   Fred. No. 28-12;     Matches 57;   Conservative 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity 67;   Similarity

ABU42513; J, O, Wang Wall ABU42513 g 셤 ઠે 8 The invention relates to novel protein complexes comprising a first and a second protein, or its derivative, fragment, homologue or variant. The proteins are selected from given protein complexes, which are not defined in the specification. The variants are encoded by nucleic acids that hybridize to the nucleic acids encoding the proteins under low stringency conditions. The protein complexes are useful as targets for an active agent of a pharmaceutical. These protein complexes are particularly useful as drugs targets for the treatment or preventing of a disease or disorder. The complexes and methods above are useful in diagnosing or creening for the presence of a disease or disorder or a predisposition for developing a disease or disorder or a predisposition in screening for a drug for treatment or prevention of a disease or disorder. The molecule that modulates the amount, activity or protein components of the complexes is useful for the manufacture of a medicament or prevention of a disease or disorder. This sequence for this patent did not form part of the printed specification but was corresponds trom the EPO in electronic format). SGAAALEMMSQAMIR-GM---MDEEGNQFVAYFLPVEETLKKRKRDQEEEMDYAPDDVYD 288 ----DEDLGMPVDLMKFPGLLNKLDSKLLYGFD-NVKLDKDDRILLRD----PRIDRLT 108 YVSNTIAAHDNTSLKRKRRL-------DÖGDSDDENLDV 154 KSISQHYSKPRVTPVEVMPVFPDFKMWINPCAQVIFDSDPAPKDT 232 155 NHIISRVEGTFNKTDK--WQHPVKKGVRAVKKWDLLPD----TASMDQVYF----ILKF 203 ---YKIAREYNWNYDONKASKGYEENYFFIFREGDGV-YYNELETRVRLSKRRAKAGVQSG 344 --RDMNEKELEAQEARKAQLEN-----HEPEEEEEEMETEEK 389 New proteins and protein complexes from eukaryotes, useful as targets in drug screening, or in diagnosing or screening for the presence of a disease or disorder, on a predisposition for developing a disease or 72 HDLLTEPOLGVTIDLI------NPDTYRIDPNVLLDPADEKLLEEEIQAPTSSKRS 121 23 LPERSGVVCRVKYCASLPDIPFDPKFITYP------FDQNRFVQYKATSLEKQHK 71 QOHAKVVPWMRKTEYISTEFNRYGISNEKPEVKIGVSVKQOFTEEEIYKDRDSQ-----9.2%; Score 253; DB 7; Length 445; 22.1%; Pred. No. 3.2e-10; 1/ye 96; Mismatches 184; Indels 114; Gaps •• :: irti-Furga G, Kuester B, Schultz J;
Krause R, Kruse U, Merino A, Bauch A;
Rick J; 1635; 13pp; English .. 20-DEC-2002; 2002EP-00102902. 20-DEC-2001; 2001EP-00130253. S d o ---ITAIEKTFED Best Local Similarity 2 Matches 112; Conservati Disclosure; SEQ ID NO 109 KTDISKVTFLRR disorder in a subject Bauer A, Grammarzioch M, Grammarzioch E, Leutwein (CELL-) CELLZOME AG. 2003-638460/61. 345 TNALLVVKH-N-PSDB; ADK63671. Sequence 445 AA; Query Match 122 233 g

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the 6113 antisease sequences given in the specification where expression of the nucleic acid inhibits proliferation of a cell. Also included are:

(1) a vector comprising a promoter operably linked to the nucleic acid

cnocding a polypeptide whose expression is inhibited by the antisense nucleic acid; (2) a host cell containing the vector; (3) an isolated polypeptide or its fragment whose expression is inhibited by the antisense nucleic acid; (4) an antibody capable of specifically binding the polypeptide; (5) producing the polypeptide; (6) inhibiting cellular proliferation, (7) identifying a gene in an operon required for proliferation, (7) identifying a compound that influences the activity of the gene product or that has an activity against a biological pathway confirmed for proliferation, or that inhibits cellular proliferation, (8) identifying a gene required for cellular proliferation or the inhibits proliferation of the agene product or that has an activity against a biological pathway in which a proliferation-required gene or its gene product lies or a gene on which the test compound that inhibits proliferation of an compound, a activity; (11) a culture comprising strains in which the gene compound's activity; (11) a culture comprising strains in which the gene product is overaxpressed; (12) determining the extent contains an antibit or contains and the compound contains and the contains an antibit or contains and the compound contains and the compound contains and the contains an activity of contains and contains and contains and contains a compound or contains and contains and contains and contains and contains a compound or contains and contains and contains and contains and contains a contains and contains and contains and contains and contains and contains and contains and contains and contains and contains and contains and contains and contains and contains and contains and contains and contains and contains and contains and contains and contains and contains and contains and contains and contains 422 or screening to which each of the strains is present in a culture or collection of strains; or (13) identifying the target of a compound that inhibits the proliferation of an organism. The antisense nucleic acids age useful for Antisense; prokaryotic essential gene; cell proliferation; drug design. 322 ----LVKEHDIDQLNVTLRNPSTKEANIRDKLRMKFDPINFATVDEEDDE\$PEDVKK 390 EAGGSDEEQEKGSSSEKEGSEDEHSGSESEREEGDRDEASDKSGSGEDES\$EDEARAARD Zyskind JW; Xu HH; New antisense nucleic acids, useful for identifying proteins or scre for homologous nucleic acids required for cellular proliferation to isolate candidate molecules for rational drug discovery programs. The invention relates to an isolated nucleic acid comprising Ohlsen KL, Forsyth RA, Protein encoded by Prokaryotic essential gene #28040. Haselbeck R, Yamamoto R, Claim 25; SEQ ID NO 70437; 1766pp; English. | :::: | : 423 PET---SDAVHTEQKPEEEKETLQEE 445 450 KEEIFGSDADSEDDADSDDEDRGQAQ ABU42513 standard; protein; 1633 Malone C, Carr GJ, 06-SEP-2001; 2001US-00948993. 25-OCT-2001; 2001US-0342923P. PEB-2002; 2002US-00022851. 06-MAR-2002; 2002US-0362699P. 21-MAR-2002; 2002WO-US009107. 21-MAR-2001; 2001US-00815242. Staphylococcus epidermidis (first entry) (ELIT-) ELITRA PHARM INC. Zamudio C, Trawick JD, WPI; 2003-029926/02 N-PSDB; ACA46383. 40200277183-A2 19-JUN-2003 03-OCT-2002

identifying proteins or screening for homologous nucleic acids required for callular proliferation to isolate candidate molecules for rational drug discovery programs, or for screening homologous nucleic acids required for proliferation in cells other than S. aureus, S. typhimurium, K. pneumoniae or P. aertylinosa. The present sequence is encoded by one of the target prokaryotic essential genes. Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at the printed specification, but was obtained fire wipo.int/pub/published_pot_sequences	Sequence 1633 AA;	Query Match 8 (6%; Score 237.5; DB 6; Length 1633; Best Local Similarity 21,2%; Pred. No. 2.5e-08; Matches 131; Conservative 85; Mismatches 238; Indels 165; Gaps 25;	KOHKHDLLTEPDLGVT	707 YVTLKDSNNRELORVTTDQSGHYQFDNLQNGTYTVEFAIPDNYTPSPANNSTNDAIDS 764	103 ADEKLLEEEIQAPTSKRSQQHAKVVPWWRKTEYISTEFNRYGISNEKPEVK 154	765 DGERDGTRKVVVARGTINNADNMTVDTGFYLLPKYNVGDYVWEDTNKDGIQDDNEKGISN 824	155 IGUSUKQKDRDSQ 175	825 VKVTLKNKNGDTIGTTTTDSNGKYEFTGLENGDYTIEFETPEGYTPTKQNSGSDEGKDSN 884	176 ITALEKTEBDA-QKSISQHYSKPRVTPVEVMPVFPDFKMMINPCAQVIFDSDP 227	885 GIKITVIVKDADNIKTIDSGFYKPIYNLGDY-VWEDINKDGIQDDSEKGISGVK 936	228 - APKDTSGAAALEMMSQAMIRGMMDEEGNQFVAYFLPVEETLKKRKRDQEEEMDY- 281	937 VILKDKNGNAIGTTTTDASCHYQFKGLENGSYTVEFETPSGYTPTKANSGQDITVDSN 994	282APDDVYDYKIAREYNWNVKNKASKGY 307	995 GITTTGIINGADNITTIBSGFYKTPKYSVGDYVWEDTNKDGIQDDNEKGISGVKVTLKDEK 1054	308EENVERIFREGD-GVYYNELETRVRLSKRRAKAGVQSGTNALLVVKHRDMN 357	1055 GNIISTTTTDENGKYQFDNLDSGNYIIHFEKPEGMTQTTANSGNDD 1100	358 EKELEAQEARKAQDRIVHEPEEEEEEEEEEEEEEEEEEEEEEEEEEE	1101 EXDADGEDVR-VTITDHDDFSIDNGYFDDDSDSDSDADSDSDSDSDSDSDADSDSDADSNSD 1159	396 EEQEKGSSSEKEGREDEHSGSESERE-EGDRDEASDK-SGSGEDESSEDEARAARDKEEI 453	1160 SDSDSDSDSDSDSDSDSDSDSDSDSDSDSDSDSDSDSD	454 FGSDADSEDDADSDDEDRGQAQGGSDNDSDSGSNGGGQRSRSHSRSASPFPSGSEHSAQE 513	1220 SDSDADSDSDADSBADSDSDADSDSDSDSDSDSDSDSDSD	514 DGSEAAASDS-SEADSDSD 531	1277 DADSDSDSDSDSDADSDSD 1295
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   MSQAMIRGMMDEEGNQFVAYFLPVEETLKKRKRDQEEEMDYAPDDVYDYKJAREYNWNVK 300
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ive 0; Mismatches 3; Indels
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PubMed=14702039; DOI=1D:1038/ng1285;

PubMed=14702039; DOI=1D:1038/ng128; Kimura K., Makita H., Sekine M., Obayashi M., Nishi T., Shibahara T., Tanaka T., Ishii S., Saidon Y., Nasamura Y., Nagahari K., Yasuda T., Imayanaji T., Wagatsuna M., Shiratori A., Sudo H., Hosoiri T., Kaku Y., Kodaira H., Kondo H., Sugawara M., Takahashi M., Kanda K., Yokoi T., Puruya T., Kikawa E., Omura Y., Abe K., Kamihara K., Kasuta N., Sato K., Tanikawa M., Yamazaki M., Ninomiya K., Ishibashi T., Yamashita H., Murakawa K., Pujimori K.,
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1-0CT-2000 (TrEMBLrell 15, Last sequence update)
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Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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OY 241 MSQAMIRGMADEEGNOFVAYFLEVEETLKKRKRDGEEEMDYAPDDYYDYKIAREYNMNVK 300	361 LEAQEARKAQLENHEPEEEEEEMETEEKEAGGSD-EEQEKGSSSEKEGSEDEHSGSESE	OY 420 KEEGDROKASDKSGSGEDESSEDEARAARDKEIFGSDADSDDEDKGQAQGGSD 479	OY 480 NDSDSGSNGGGGRSRSHSRSASPPPSGSEHSAQEDGSEAAASDSSEADSDSD 531	RESULT 7 QBN7H5 ID QBN7H5 PRELIMINARY; PRT; 485 AA.	QBN7H5; 01-OCT-2002 01-OCT-2002	UI-00N-2003 (IEEEBLEEL 24, DO Hypothetical protein FL/25557. Homo sapiens (Human)	OC Eukaryota; Metazoa; Cnompara; Vranlara; Vertebrara; Buteleostomi; OX Namalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. OX NCBI_TaxID=9606; RN [1]	SEQUENCE FROM N.A. TISSUB=Thyroid; Ninomiya K., Wagatsuma M., Kanda K., Kondo H., Yokoi T., Kodaira	17., Sug 2002) to BAC05305 7133; Paf	Query Match 72,2%; Score 1995; DB 2; Length 485; Best Local Similarity 97,2%; Pred. No. 9.3e-87; Matches 383; Conservative 1; Mismatches 0; Indels 10; Gaps 1;	Oy 1 MAPTIQTQAQREDQHRPUSHRTLPERSGVVCRVKYCNSLPDIPFDFKFITYPFDQNRFVQ 60	Qy 61 YKATSLEKQHKHDIHTEPDLGVTIDLINPDTYRIDPNVLLDPADEKLLEEBIQAPTSSKR 120 	OY 121 SQQHAKVVPWMRKTETISTEFNRYGISNEKPEVKIGVSVKQQFTEEEIYKDRDSQITAIE 180	OY 181 KTFEDAQKSISQHYSKPRVTPVEVMPVFPDFKOMINPCAQVIFDSDPAPKDTSGAAALEM 240	Qy 241 MSQAMIRGMMDEEGNQFVAYFLPVEETLKKRKRDQEEEMDYAPDDVYDYKIAREYNWNVK 300

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TEIN (HYPOTHETICAL 60.0 kDa ara Y., Shibata K., Itoh M., nizaki Y.;
nizaki Y.;
per-selected cDNAs to oid discovery of new genes."; up Phase I & II Team; I on functional annotation of 1016/80076-6879(99 03004-9; S., Sasaki N., Carninci P., S., Sasaki N., Carninci P., T., Tashiro H., Itoh M., Ikegami T., Harada A., Ikegami T., Kashiwagi K., M., Ohara B., Watahiki M., T., Matsuura S., Kawai J., T., Hayashizaki Y.; A., system-384-format ary sequencer."; ertebrata; Euteleostomi; i, Muridae; Murinae; Mus. use cDNA collection.", T., Arai A., Aono 1038/35055500; GS 394 35 384 ġ

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Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002)
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  R.L., Wagner L., Pontius J., Clifton S.W.,
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RAM Amanatidas P.G., Scheraf S.E., Li P.W., Hoskins R.A., Galle R.F.,

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"The transposable elements of the Drosophila melanogaster euchromatin:
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Bukaryota; Metazoa, Arthropoda; Hexapoda; Insecta; Pterygota;
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13, Last sequence update)
28, Last annotation update)
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  453
   9
  5
  YKATSLEKQHKHDLLTEPDLGVTIDLINPDTYRIDPNVLLDPADEKLLEEELQAPTSSKR
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  38; Gaps
MEDLINE=22426069; PubMed=12537572;
Misra S., Crosby M.A., Mungall C.J., Matthews B.B., Campbell K.S.,
Hradecky P., Huang Y., Kaminker J.S., Millburn G.H., Prochnik S.E.,
Smith C.D., Tupy J.L., Whitfied E.J., Bayraktaroglu L., Berman B.P.,
Harris N.L., Richter J., Russo S., Schroeder A.J., Shu S.Q.,
Stapleton M., Yamada C., Ashburner M., Gelbart W.M., Rubin G.M.,
   STRAIN-Berkeley;
Stapleton M., Brokstein P., Hong L., Agbayani A., Carlson J.,
Champe M., Chavez C., Dorsett V., Dreenek D., Farfan D., Frise E.,
George R., Gonzalez M., Guarin H., Kronmiller B., Li P., Liao G.,
Miranda A., Mungall C.J., Nunco J., Pacleb J., Paragas V., Park S.,
Patel S., Phouanenavong S., Wan K., Yu C., Lewis S.E., Rubin G.M.,
  ø
  45.0%; Score 1244.5; DB 2; Length 538 50.0%; Pred. No. 3e-51; Indels 38
  Annotation of the Drosophila melanogaster euchromatic genome
   Submitted (MAR-2004) to the EMBL/GenBank/DDBJ databases.
   Submitted (DEC-2001) to the EMBL/GenBank/DDBJ databases.
   to the EMBL/GenBank/DDBJ databases
   60794 MW; D55E95B4F4EB8E51 CRC64;
  Genome Biol. 3:RESEARCH0083-RESEARCH0083(2002)
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312 QYNEVDCNVKMT-RKPKMALSRKSKLTLTYR----NPSELEQKDMNKREAĞLYEQPKTRK 366
   83 TIDLINPDTYRIDP-NVLLDPADEKLLEREIQAPTSSKRSQQHAKVVPWMRKTEYISTEF 141
  NRYGISNEKPEVKIGVSVKQQFTEEIYKDRDSQITAIEKTFEDAQKSISQHYSKPRVTP 201
  14 PRKVDFWLKPRPTWTVPDVPFDAKFWTCPFVPLGRFVEFQPAAIYRDYKH4VICDDDMGL 73
  367 QEILEKIQEKKEEGGD------SSDQSSDDDBPPQKSR-------SSDSSDV
   24 PERSGVVCRVKYCNSLPDIPFDPKFITYPF-DONRFVQYKATSLEKQHKHÜLLTEPDLGV
  202 VEVMPVFPDFKGMINPCAQVIFDSDPAPKDTSGAAALEMMSQAMIRGMMDHEGNQFVAYF
  194 VEESFVPPDFDHWKHLPAHVQFDGDTITTEFEEEDERQQARESSVIKAMEHEDQKFAAVF
   LPVEETLKKRKRDQBEEMDYAPDDVYDYKIAREYNWNVKNKASKGYEENYRFIFREGDGV
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  EEEME - - TERKEAGGSDEEQEKGSSSEKEGSEDEHSGSESEREEGDRDEAGDKSGSGEDE
   Gaps
  Caenorhabditis elegans.
Eukaryota; Metazoa; Nematoda; Chromadorea; Rhabditida; Rhabditoidea;
Rhabditidae; Peloderinae; Caenorhabditis.
  34.
  "Genome sequence of the nematode C.elegans: A platform for
  23.3%; Score 645; DB 2; Length 42 ilarity 33.1%; Pred. No. 5e-23; Conservative 96; Mismatches 165; Indels
  to the EMBL/GenBank/DDBJ databases.
   il protein.
425 AA; 49897 MW; 4BA06AF90913DCC5 CRC64;
                                     01-MAY-1997 (TrEMBLrel. 03, Created)
01-MAY-1999 (TrEMBLrel. 10, Last sequence update)
01-MAY-1999 (TrEMBLrel. 24, Last annotation update)
Hypothetical protein C55A6.9.
   589 A.A.
  ||:|: | || || ||:|
|SSDDD--SPRKKEPTVDSDSD 425
  PRT;
  SSEDEARARDKEEIFGSDAD 459
  EMBL; Z81051; CAB02869.1;
PIR; T20261; T20261.
WormBase; WBGGne00008338; C55A6.9.
WormPep; C55A6.9; CE20614.
  STRAIN-Bristol N2;
MEDLINE-99069613; PubMed-9851916;
  investigating biology.";
Science 282:2012-2018(1998).
  InterPro, IPR007133; Pafl. Pfam, PF03985; Pafl; 1. Hypothetical protein.
   Kershaw J.K.;
Submitted (OCT-1996)
   Similarity
  STRAIN=Bristol N2;
   SEOUENCE FROM N.A.
   SEQUENCE FROM N.A
   NCBI_TaxID=6239,
   146;
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  262
  322
   381
   407
   SEQUENCE
   Query Match
   Best Loca
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   RESULT 13
  Q8RW91
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                      FGSDADSEDDADSDPEDRGQAQGGSDNDSDSGS-NGGGQRSRSHSRSASPFPSGSEHSAQ 512
   YKATSLEKOHKHULLTEPDLGVTIDLINPDTYRIDPNVLLDPADEKLLEEEIQAPTSSKR 120
   62 YNPTSLERNYRYEWYLTEHDLGVTIDLINRDLYQIDHSAQLDPADEKLLEEDIHTPQDSMR 121
   EYISTEFNRYGISN-EKPEVKIGVSVKQQFTEEEIYKDRDSQITAI 179
  EKTPEDAOKSISQHYSKPRVTPVEVMPVFPDFKMMINPCAOVIFDSDPAPKDTSGAAALE 239
   EKTFEDNTKPITTHYSKPGVTPVEIMPVFPDFANWKYPCAQVIFDSDPAPSGKNVPAQIE 241
   242 EMSQAMIRGVMDESSEQEVAYFLPTDDTLEKRRRDLVNSTLYEDEEEYEYXWAREXNWNV 301
  FREGDGVYYNELETRVRLSKRRAKAGVQSGTNALLVVKHRDMNEK 359
  302 KSKASKGYBENYYLAVLRP-DGIYYNELETRVRLSKRRQK-NAQQQSNTKLVVKHRPLNAS 359
  1 MAPTIOTOAOREDGHRPNSHRTLPERSGVVCRVKYCNSLPDIPFDPKFITYPFDQNRFVQ 60
   61
   GNOFVAYFLPVEETLKKRKRDOEEEMDYAPDDVYDYKIAREYNWNV
  Gaps
   Anopholes gambiae str. | PEST.
Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
Neoptera; Endopterygota; Diptera; Nematocera; Culicoidea; Anopheles.
NCBI_TaxID=180454;
   the shown here is derived from an whole genome shotgun (WGS) entry which is
  9
  8%; Score 1129; DB 2; Length 468;
8%; Pred. No. 7.4e-46;
   87; Indels
   Anopheles Genome Sequencing Consortium;
Submitted (MAR-2002) tb the EMBL/GenBank/DDBJ databases
   468 | 53298 MW; 47BECB1BB520C826 CRC64;
  26, Last sequence update)
26, Last annotation update)
  AgCP12185 (Fragment). |
Name=agCG49165; ORFNames=ENSANGG00000017836;
   468 AA
   45; Mismatches
  Created)
   preliminary data.
EMBL, AAABO1008897, BAAD1198.1;
InterPro, IPR007133, Paf1.
Pfam; PP03985; Paf1; 1.
   40.8%;
61.8%;
  KNKASKGYEENYFFI
   01-MAR-2004 (TrEMBLrel).
   01-MAR-2004 (TrEMBLrel].
   SOOHAKWPWMRK
   CAUTION: The sequen
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  MMSQAMIRGMMDE
   PRELIMINAR
  Matches 223; Conservati
  468 AA;
   Query Match
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09RW91, 01-TWD-2002 (TERMELTE) 21, Last sequence update) 01-TWD-2002 (TERMELTE) 27, Last sequence update) 05-TWD-2004 (TERMELTE) 27, Last sequence update) 05-TWD-2004 (TERMELTE) 27, Last sequence update) 05-TWD-2004 (TERMELTE) 27, Last sequence update) 05-TWD-2004 (TERMELTE) 27, Last sequence update) 05-TWD-2004 (TERMELTE) 27, Last sequence update) 05-TWD-2004 (TERMELTE) 27, Last sequence update) 05-TWD-2004 (TERMELTE) 27, Last sequence update 27, Last sequence Update 37, Last Sequence Tron N. A. Mitchell 27, Mitchell 27, Last Sequence Tron N. A. Mitchell 27, Last Sequence Tron N. A. Mitchell 27, Last Sequence Tron N. A. Mitchell 27, Last Sequence 25, Last C. John 27, Last Sequence Tron N. A. Mitchell 27, Last Sequence Tron N. A. Mitchell 27, Last Sequence Tron N. A. Mitchell 27, Last Sequence Tron N. A. Mitchell 27, Last Sequence 27, Concert Sequence Tron N. Mitchell 27, Mitchell 27, Mitchell 27, Mitchell 27, Mitchell 27, Mitchell 27, Mitchell 27, Mitchell 27, Mitchell 27, Mitchell 27, Mitchell 27, Mitchell 27, Mitchell 27, Mitchell 27, Mitchell 27, Mitchell 27, Mitchell 27, Mitchell 27, Mitchell 27, Mitchell 27, Mitchell 27, Mitchell 27, Mitchell 27, Mitchell 27, Mitchell 27, Mitchell 27, Mitchell 27, Mitchell 27, Mitchell 27, Mitchell 27, Mitchell 27, Mitchell 27, Mitchell 27, Mitchell 27, Mitchell 27, Mitchell 27, Mitchell 27, Mitchell 27, Mitchell 27, Mitchell 27, Mitchell 27, Mitchell 27, Mitchell 27, Mitchell 27, Mitchell 27, Mitchell 27, Mitchell 27, Mitchell 27, Mitchell 27, Mitchell 27, Mitchell 27, Mitchell 27, Mitchell 27, Mitchell 27, Mitchell 27, Mitchell 27, Mitchell 27, Mitchell 27, Mitchell 27, Mitchell 27, Mitchell 27, Mitchell 27, Mitchell 27, Mitchell 27, Mitchell 27, Mitchell 27, Mitchell 27, Mitchell 27, Mitchell 27, Mitchell 27, Mitchell 27, Mitchell 27, Mitchell 27, Mitchell 27, Mitchell 27, Mitchell 27, Mitchell 27	Db 366 TNKNLQPVEVLPLLPYFDRYDBQFVVANFDGAPIADSEFFGKLDPSIRDAHESRAILK 423  Qy 243 QAMIRGMMDEBGNQFYAYFLPVEETLKKRRDQEEEMDYAPDDVYDYKIAREYNWNVKNK 302  ::

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PLLTTDRVENRLKKPTT#ICKLKFRN 202
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   Chao Q., Johnson-Hopson C.,
C., Chiou J., Choi E.,
F., Howing B., Koo T., Lam B.,
iu S., Mukharsky N.,
chwartz J., Southwick A.,
Davis R., Federspiel N.,
   Johnson-Hopson C., kim C.,
ou J., Choi E., Cond L.,
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ukharsky N., Nguyen M.,
Southwick A., Thaveri A.,
  DB 2; Length 593;
-09;
152; Indels 149; Gaps
  oryophyta; Tracheophyta;
18; core eudicots; rosids;
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